



	SAE PIPE FITTINGS	01~14
	SAE 45° FLARE	15~26
	HOSE BARB	27~34
	PUSH ON	35~40
	SAE COMPRESSION	41~49
	D.O.T PUSH-IN	50~56
	METRIC D.O.T PUSH-IN	57~62
	D.O.T AIR BRAKE NYLON TUBING	63~69
	D.O.T AIR BRAKE COPPER TUBING	70~75
	D.O.T AIR BRAKE HOSES/ENDS	76~80
	TRANSMISSION FITTINGS	81~83
	GARDEN HOSE	84~89
	POL (BOTTLED GAS)	90~91
	INVERTED FLARE	92~96
	AIR BRAKE HOSE ASSEMBLIES	97~101
	Hydraulic Quick Couplings	102~105
	DRAIN COCKS	106~109
	BSPT/BSPP FITTINGS	110~118
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	ASSEMBLY GUIDES	129~142

S.A.E PIPE FITTINGS

3129  P4	3150  P4	3151  P4	3153  P4
3152  P4	3200  P3	3220  P3	3300  P5
3325  P6	3250  P5	3326  P6	33**  P7
3350  P8	3400  P8	3500  P8	3600  P8
3700  P9	3750  P9	3950  P9	3550  P9
3800  P9	3000  P7	1300  P6	1340*  P7

HOSE BARB

121  P29	122  P29	123  P29	125  P30
125S  P30	126  P31	127  P31	128SV  P32
129  P33	139  P32	146  P32	168  P33
20  P34	22  P34	24  P34	25  P34
26  P34	28  P34	29  P34	

Stainless Steel pipe fittings

S3129  P121	S3326  P121	S33**  P122	S3200  P123
S3220  P124	S3300  P124	S3153  P125	S3129  P125
S3152  P125	S3350  P126	S3420  P126	S3520  P127
S3800  P127	S3750  P127	S3600  P127	S3950  P127

SAE 45 FLARE

440  P17	440S  P17	441  P17	441S  P18
U440  P18	40  P18	39  P18	42  P19
46  P21	48  P20	49  P22	50  P23
54  P23	55  P19	44  P24	45  P24
51  P25	432  P26	433  P26	447  P25
2GF  P24	3GF  P25		

PIPE FITTINGS

BP  P12	BCN  P13	BCF  P12	BFM  P12
BBU  P14	BTF  P13	BLF  P14	BLFM  P14

PUSH-ON

272  P37	274  P37	280  P38	282  P38
284  P38	287  P39	288  P39	294  P39
296  P40	290  P40	273  P40	

D.O.T PUSH-IN

1562  P52	1564  P52	1565  P52	1566  P52
1568  P53	15688  P39	1582  P53	1583  P53
1586  P53	1569  P54	1569S  P54	1570  P55
1571  P56	1571S  P56	1572  P56	1572S  P56
1554  P55	1554S  P55		

METRIC D.O.T PUSH-IN

1668M  P59	1668R  P59	1669M  P60	1669R  P60
1665  P61	1664  P61	1662  P62	1654  P62
1664B  P61	1664F  P61	1664FM  P61	16F2  P61

COMPRSSION

60  P43	61  P43	1611  P43	62  P44
74  P44	65  P44	68  P45	66  P46
70  P46	69  P47	79  P47	64  P48
71  P48	72  P49	2030  P49	

D.O.T AIR BRAKE NYLON TUBING

1460  P65	1461  P65	1462  P65	1474  P65
1465  P66	1468  P66	1466  P66	1469  P67
1470  P67	1464  P67	1471  P68	1472  P68
1480  P68	1495  P69	1462BF  P69	1484  P69
1484S  P69			

TRANSMISSION

60TF  P86	61TF  P86	62TF  P86	68TF  P86
69TF  P86			

D.O.T AIR BRAKE COPPER

1360  P72	1361  P72	1362  P72	1374  P72
1365  P73	1368  P73	1366  P73	1369  P74
1370  P74	1364  P74	1371  P75	1472  P75
1380  P75			

D.O.T AIR BRAKE HOSE/ENDS

60RB  P78	61RB  P78	61RBSG  P78	67RBSG  P78
62RB  P79	68RB  P79	68RBN  P79	68RBSG  P80
66RBSV  P80	76RB  P80		

INVERTED FLARE

100  P94	105  P94	131  P94	105L  P94
302  P95	202  P95	252  P95	352  P96
402  P96	702  P96	752  P96	602  P96

GARDEN HOSE

69GH  P86	82GH  P86	75GH  P86	78GH  P86
99GH  P87	98GHSV  P87	101GHSV  P87	94GH  P87
53GH  P88	90GH  P88	K90GH  P88	PSN76  P89

POL(BOTTLED GAS)

2001  P91	2002  P91	2004  P91	2005  P91
2006  P91			

BSP&BSPT FITTINGS

2500  P112	2501  P112	2510  P112	2511  P112
2520  P113	2521  P113	2530  P113	2531  P114
2543  P114	2553  P114	2611  P114	2601  P115
2013  P115	2010  P115	2020  P116	2060  P116
2080  P116	2070  P116	2080  P117	2090  P117
2040  P117	2043  P117	2033  P118	

DRAIN COCKS			
DC-100  P108	DC-101  P108	DC-103  P108	DC-104  P108
DC-105  P108	DC-106  P109	DC-107  P109	DC-108  P109
DC-109  P109	DC-110  P109		

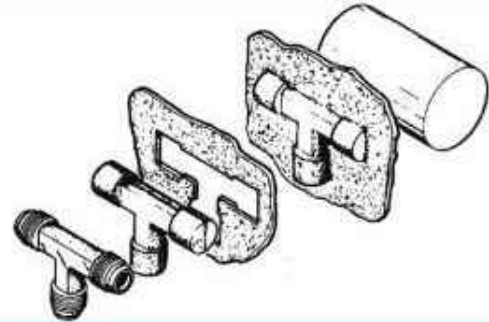
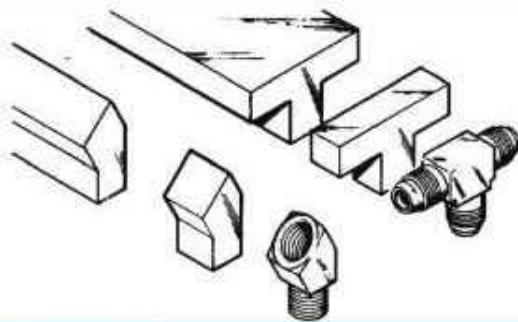
Straight bodies: Barstock CA 360 or CA345 or C3604

Shape bodies: Extruded barstock CA 360
or Forged CA377

Nuts: Barstock CA 360 or Forged CA377

MATERIAL COMPOSITION

ASTM B16-92				ASTM B124.283			
Ca360 Brastock Brass				Ca377 Forged Brass			
Elements	Nominal	Min	Max	Elements	Nominal	Min	Max
Copper	61.5	60.0	63.0	Copper	59.5	58.0	61.0
Lead	3.1	2.5	3.7	Lead	2	1.5	2.5
Lron			0.35	Lron			0.3
Other			0.5	Zinc	38.0		
Zinc	35.4	Balance					

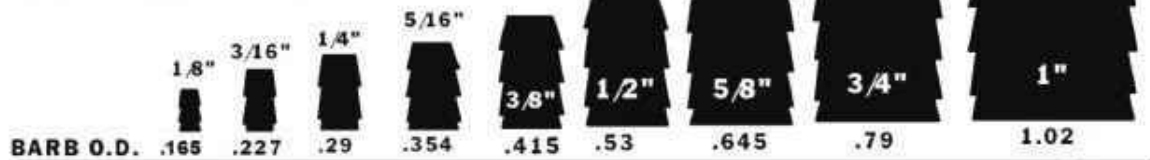


TYPE FITTINGS	THREAD CHART									
	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1"
Inverted		5/16-24	3/8-24	7/16-24	1/2-20	5/8-18	3/4-18	7/8-18	1 1/16-16	
45° Flair	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	3/4-16	7/8-14	1 1/16-14	1 1/4-12	1 3/8-12
Compression	5/16-24	3/8-24	7/16-24		9/16-24	1 1/16-20	1 3/16-18	1 1/8-18	1 1/16-16	
Air Brake			7/16-24		1 7/32-18	1 1/16-20	1 3/16-18	1 1/8-18		
Hose brab	1/8-27		1/4-18		3/8-18	1/2-14		3/4-14		1 1/8-11.5
Threaded	5/16-24	3/8-24	7/16-24	9/16-20						
pipe	1/8-27		1/4-18		3/8-18	1/2-14		3/4-14		1 1/8-11.5

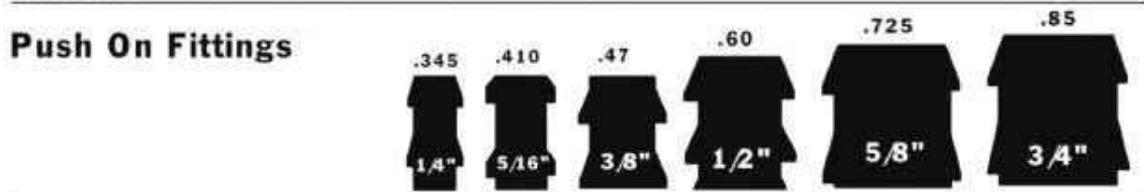
THREAD PROFILES



Hose Barb Fittings



Push On Fittings

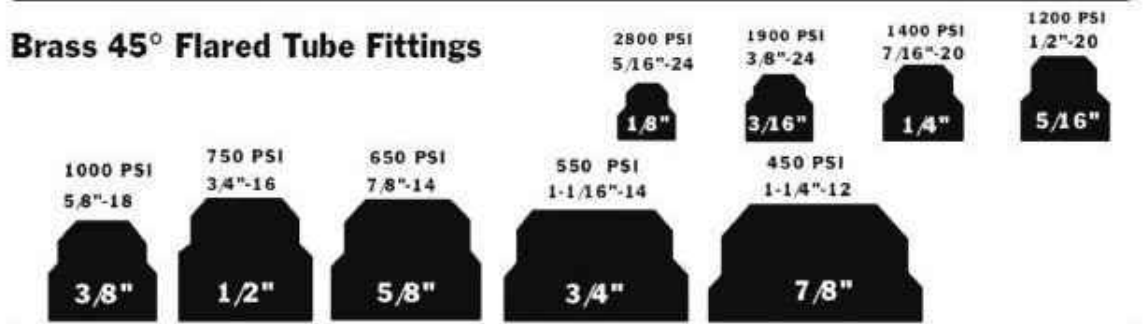


Garden Hose Fittings

Male Garden Hose Threads are 3/4" with O.D. of 1.0625 and 11-1/2 threads per inch



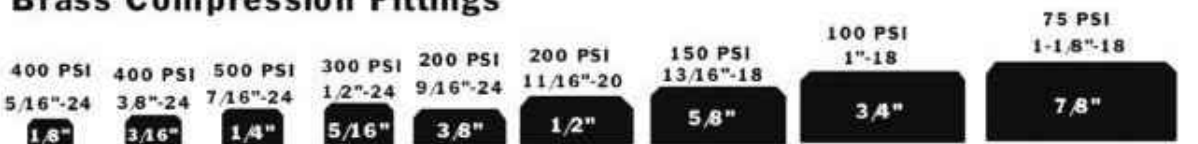
Brass 45° Flared Tube Fittings



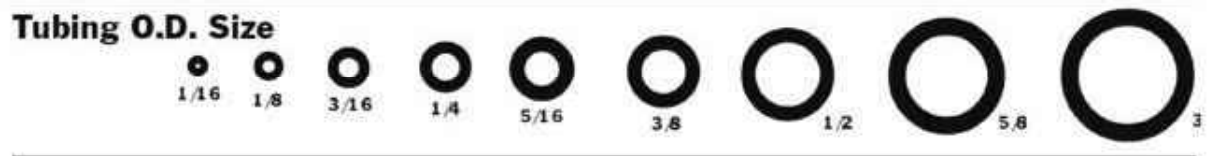
Brass Inverted Flare Fittings



Brass Compression Fittings



Tubing O.D. Size





S.A.E PIPE FITTINGS

Pipe Fittings

SAE Standards
Dryseal Threads
Forgings & Extruded



1

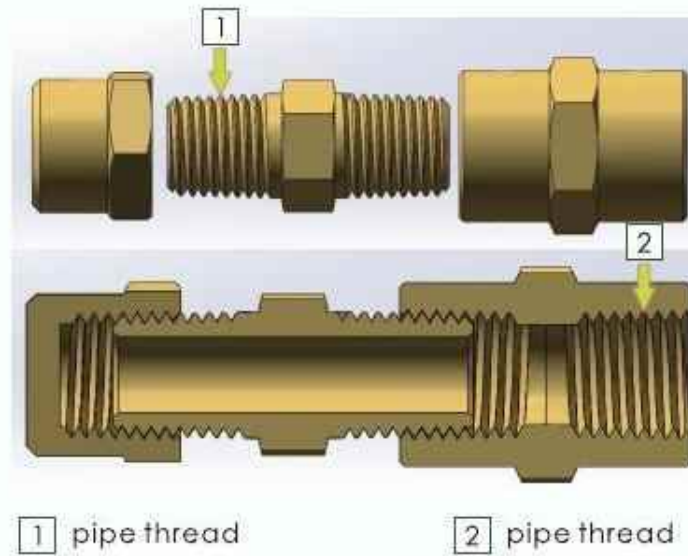


Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives: 2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury, lead, cadmium,
hexavalent chromium, PBB and PBDE)

S.A.E PIPE FITTINGS



PIPE SIZE	1/16	1/8	1/4	3/8	1/2	3/4	1"
THREAD SIZE	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1"-1.1/2

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Operating pressure up to 1200 psi

Vibration:

Fair resistance.

Temperature Range:

-65° F to +250° F (-53° C to +121° C)

Material:

CA 360 Brass for Barstock fittings., CA377 Brass for forged fittings

Used With:

Brass, bronze and iron pipe.

Advantages:

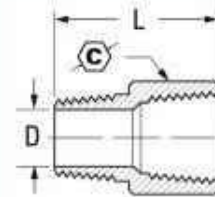
Dryseal pipe threads (NPTF). Large range of sizes and configurations.



S.A.E PIPE FITTINGS

PART#	Thread size	C	D	L	W.G	Price
3200L-AA	F1/8×M1/8	1/2	.219	.83		
3200-AA	F1/8×M1/8	9/16	.219	.88		
3200L-BA	F1/4×M1/8	5/8	.219	.94		
3200-BA	F1/4×M1/8	3/4	.219	1.06		
3200L-BB	F1/4×M1/4	5/8	.312	1.00		
3200-BB	F1/4×M1/4	3/4	.312	1.25		
3200L-CA	F3/8×M1/8	3/4	.219	1.00		
3200-CA	F3/8×M1/8	7/8	.219	1.00		
3200L-CB	F3/8×M1/4	13/16	.312	1.12		
3200-CB	F3/8×M1/4	7/8	.312	1.25		
3200L-CC	F3/8×M3/8	13/16	.438	1.12		
3200-CC	F3/8×M3/8	7/8	.438	1.25		
3200L-DB	F1/2×M1/4	15/16	.312	1.19		
3200-DB	F1/2×M1/4	1-1/16	.312	1.46		
3200L-DC	F1/2×M3/8	15/16	.438	1.19		
3200-DC	F1/2×M3/8	1-1/16	.438	1.47		
3200L-DD	F1/2×M1/2	15/16	.562	1.31		
3200-DD	F1/2×M1/2	1-1/16	.562	1.66		
3200-EC	F3/4×M3/8	1-1/4	.438	1.59		
3200-ED	F3/4×M1/2	1-1/4	.563	1.69		
3200-EE	F3/4×M3/4	1-1/4	.750	1.69		

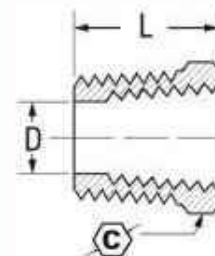
Adapter
(Ref.SAENO.130139)



L:Light

PART#	Thread size	C	D	L	W.G	Price
3220L-BA	M1/4×F1/8	9/16	.32	.62		
3220-BA	M1/4×F1/8	9/16	.32	.75		
3220-CA	M3/8×F1/8	11/16	.337	.75		
3220L-CB	M3/8×F1/4	11/16	.435	.69		
3220-CB	M3/8×F1/4	3/4	.435	.75		
3220-DA	M1/2×F1/8	7/8	.56	.87		
3220L-DB	M1/2×F1/4	7/8	.56	.87		
3220-DB	M1/2×F1/4	7/8	.56	1.0		
3220L-DC	M1/2×F3/8	7/8	.56	.87		
3220-DC	M1/2×F3/8	7/8	.56	1.0		
3220-EA	M3/4×F1/8	1-1/8	.74	.94		
3220-EB	M3/4×F1/4	1-1/8	.708	.94		
3220-EC	M3/4×F3/8	1-1/8	.708	.94		
3220-ED	M3/4×F1/2	1-1/8	.708	.94		
3220-HB	M1"×F1/4	1-3/8	.95	1.12		
3220-HC	M1"×F3/8	1-3/8	.95	1.12		
3220-HD	M1"×F1/2	1-3/8	.95	1.12		
3220-HE	M1"×F3/4	1-3/8	.95	1.31		

Bushing
(Ref.SAENO.130140)



S.A.E PIPE FITTINGS

PART#	Thread size	C	L	W.G	Price
*3129-A	1/8	9/16	.50		
*3129-B	1/4	11/16	.59		
*3129-C	3/8	13/16	.68		
*3129-D	1/2	1-1/8	.79		
*3129-E	3/4	1-1/4	.94		

*PTF Short Thread

PART#	Thread size	E	L	W.G	Price
*3150-A	1/8	.05	.31		
*3150-B	1/4	.08	.42		
*3150-C	3/8	.09	.45		

*PTF Short Thread

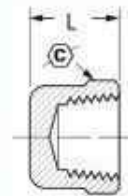
PART#	Thread size	C	F	L	W.G	Price
3151-A	1/8	.28	.24	.59		
3151-B	1/8	.37	.29	.79		
*3151L-B	1/4	.37	.29	.80		
3151-C	3/8	.43	.32	.80		
3151L-C	3/8	.43	.32	.80		
3151-D	1/2	.56	.39	1.06		
*3151L-D	1/2	.56	.39	1.06		
3151-E	3/4	.62	.43	1.11		
*3151L-E	3/4	.62	.43	1.11		

*Hollow

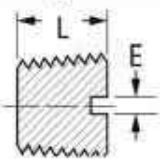
PART#	Thread size	Socket Hex	L	W.G	Price
3153-A	1/8	3/16	.30		
3153-B	1/4	1/4	.45		
3153-C	3/8	15/16	.47		
3153-D	1/2	3/8	.61		
3153-E	3/4	9/16	.62		

PART#	Thread size	C	F	L	W.G	Price
3152-A	1/8	7/16	.19	.55		
3152-B	1/4	9/16	.18	.62		
3152-C	3/8	11/16	.22	.72		
3152-D	1/2	7/8	.39	.87		
3152-E	3/4	1-1/16	.56	.94		

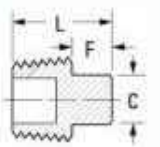
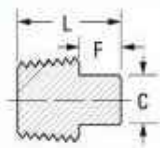
CAP



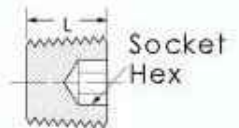
Slotted Plug



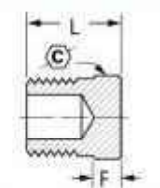
Square Head Plug



Hex Socket Plug



Hex Head Plug

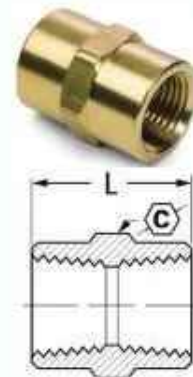


S.A.E PIPE FITTINGS

PART#	Thread size	C	L	W.G	Price
3300L-A	1/8×1/8	1/2	.75		
3300-A	1/8×1/8	15/16	.75		
3300L-B	1/4×1/4	5/8	.88		
3300-B	1/4×1/4	3/4	1.12		
3300L-C	3/8×3/8	13/16	1.00		
3300-C	3/8×3/8	7/8	1.12		
3300L-D	1/2×1/2	15/16	1.19		
3300-D	1/2×1/2	1-1/16	1.50		
3300L-E	3/4×3/4	1-1/4	1.19		
3300-E	3/4×3/4	1-1/4	1.53		
3300-H	1"×1"	1-1/2	1.89		

L:Light

Coupling
(Ref.SAE.NO.130138)

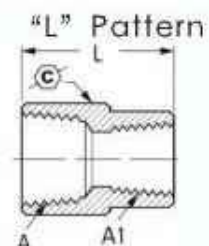


PART#	Thread size	C	L	W.G	Price
3300L-BA	1/4×1/8	5/8	.83		
3300-BA	1/4×1/8	3/4	.97		
3300-CA	3/8×1/8	7/8	.94		
3300L-CB	3/8×1/4	13/16	1.00		
3300-CB	3/8×1/4	7/8	1.16		
3300L-DA	1/2×1/8	15/16	1.19		
3300L-DB	1/2×1/4	1"	1.11		
3300-DB	1/2×1/4	1-1/16	1.28		
3300L-DC	1/2×3/8	15/16	1.19		
3300-DC	1/2×3/8	1-1/16	1.38		
*3300-EC	3/4×3/8	1-3/8	1.32		
*3300-ED	3/4×1/2	1-3/16	1.19		

*Not to SAE specs

L:Light

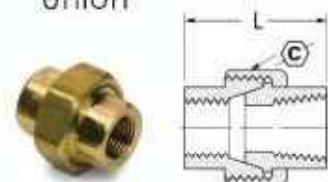
Reducer coupling
(Ref.SAE.NO.130138)



PART#	Thread size	C	L	W.G	Price
3250-A	1/8	15/16	1.19		
3250-B	1/4	1-1/16	1.31		
3250-C	3/8	1-1/4	1.75		
3250-D	1/2	1-9/16	1.79		

L:Light

Union



S.A.E PIPE FITTINGS

PART#	Thread size	C	D	D1	L	W.G	Price
3325L-AA	1/8x1/8	7/16	.219	.219	.91		
3325-AA	1/8x1/8	7/16	.219	.219	.97		
3325L-BA	1/4x1/8	9/16	.219	.219	1.00		
3325-BA	1/4x1/8	9/16	.312	.219	1.19		
3325L-BB	1/4x1/4	9/16	.312	.312	1.12		
3325-BB	1/4x1/4	9/16	.312	.312	1.38		
3325L-CA	3/8x1/8	11/16	.438	.219	1.11		
3325-CA	3/8x1/8	11/16	.438	.219	1.22		
3325L-CB	3/8x1/4	11/16	.438	.312	1.19		
3325-CB	3/8x1/4	11/16	.438	.312	1.41		
3325L-CC	3/8x3/8	11/16	.438	.438	1.25		
3325-CC	3/8x3/8	11/16	.438	.438	1.41		
3325L-DB	1/2x1/4	7/8	.562	.319	1.34		
3325-DB	1/2x1/4	7/8	.562	.319	1.62		
3325L-DC	1/2x3/8	7/8	.562	.438	1.41		
3325-DC	1/2x3/8	7/8	.562	.438	1.62		
3325L-DD	1/2x1/2	7/8	.662	.662	1.50		
3325-DD	1/2x1/2	7/8	.562	.562	1.81		
3325-ED	3/4x1/2	1-1/16	.750	.562	1.50		
3325-EE	3/4x3/4	1-1/16	.750	.750	1.96		
3325-HH	1"x1"	1-3/8	.960	.960	2.30		

L:Light

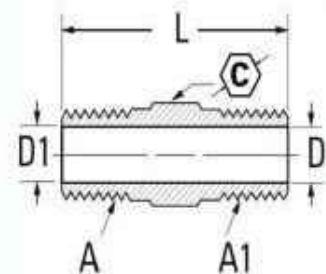
PART#	Thread size	D	L	W,G	Price
3326-A	1/8	.281	.75		
*3326-B	1/4	.375	.88		
3326-C	3/8	.500	1.00		
3326-D	1/2	.625	1.12		
3326-E	3/4	.750	1.38		

* PTF Short Thread

PART#	Thread size	C	L	W.G	Price
1300-A	1/8	11/16	.19		
1300-B	1/4	7/8	.25		
1300-C	3/8	1"	.25		
1300-D	1/2	1-1/8	.25		

Jam Nuts
Straight pipe thread

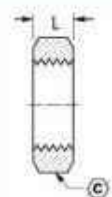
Nipple
Reducing Hex Nipple
(Ref.SAENo.130137)



Close Nipple



Locknut



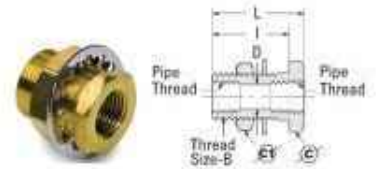
S.A.E PIPE FITTINGS

PART#	Pipe size	C	C1	Size-B	L	W.G	Price
3000-A	1/8	7/8	15/16	5/8-18	.96		
3000L-A	1/8	7/8	15/16	5/8-18	1.50		
3000-B	1/4	1"	1"	3/4-16	.94		
3000L-B	1/4	1"	1"-1/8	3/4-16	1.50		
3000-C	3/8	1"-1/8	1"-1/4	1"-14	1.31		
3000-D	1/2	1"-1/4	1"-3/8	1"-1/8	1.50		

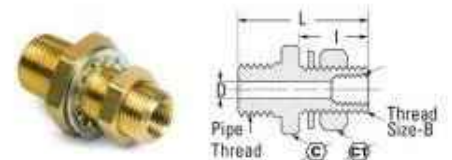
L:Light

PART#	FxM	C	C1	Size-B	I	L	Price
1340	1/2x1/4	1"-1/4	15/16	3/4-16	1.13	2.16	
1341	1/2x1/4	1"-1/4	15/16	3/4-16	1.53	2.53	
1342	1/2x1/4	1"-1/4	1-3/8	1-14	1.88	2.94	
1343	1/2x1/4	1"-1/4	1-3/8	1-14	2.88	3.94	

Bulkhead Coupling

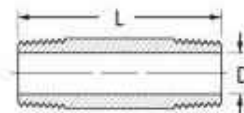


Bulkhead Coupling



PART#	Thread size	D	L	W.G	Price
3327-A	1/8	.281	1.50		
3328-A	1/8	.281	2.00		
3329-A	1/8	.281	2.50		
3330-A	1/8	.281	3.00		
3327-B	1/4	.375	1.50		
3328-B	1/4	.375	2.00		
3329-B	1/4	.375	2.50		
3330-B	1/4	.375	3.00		
3327-C	3/8	.500	1.50		
3328-C	3/8	.500	2.00		
3329-C	3/8	.500	2.50		
3330-C	3/8	.500	3.00		
3327-D	1/2	.625	1.50		
3328-D	1/2	.625	2.00		
3329-D	1/2	.625	2.50		
3330-D	1/2	.625	3.00		
3327-E	3/4	.750	1.50		
3328-E	3/4	.750	2.00		
3329-E	3/4	.750	2.50		
3330-E	3/4	.750	3.00		

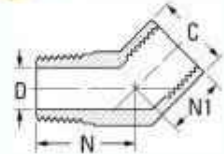
Long Nipple



S.A.E PIPE FITTINGS

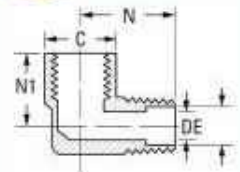
PART#	Thread size	C	D	N	N1	W.G	Price
3350-A	1/8×1/8	9/16	.219	.50	.38		
3350-B	1/4×1/4	11/16	.315	.74	.56		
3350-C	3/8×3/8	13/16	.438	.78	.56		
3350-D	1/2×1/2	1"	.562	1.00	.76		
3350-E	3/4×3/4	1"-1/4	.750	1.06	.75		

45° Street Elbow
(Ref.SAE No.130339)



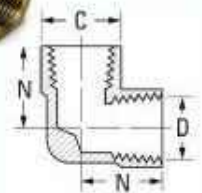
PART#	Thread size	C	D	N	N1	W.G	Price
3400-A	1/8×1/8	9/16	.219	.66	.47		
3400-B	1/4×1/4	11/16	.315	.91	.72		
3400-C	3/8×3/8	13/16	.438	.97	.78		
3400-D	1/2×1/2	1"	.562	1.25	1.03		
3400-E	3/4×3/4	1"-1/4	.750	1.38	1.12		

90° Street Elbow
(Ref.SAE No.130239)



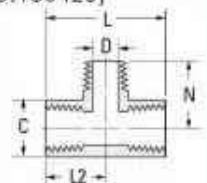
PART#	Thread size	C	D	N	W.G	Price
3500-A	1/8×1/8	9/16	.219	.55		
3500-B	1/4×1/4	11/16	.315	.78		
3500-C	3/8×3/8	13/16	.438	.84		
3500-D	1/2×1/2	1"	.562	1.09		
3500-E	3/4×3/4	1"-1/4	.750	1.16		

90° Street Elbow
(Ref.SAE No.130238)



PART#	Thread size	C	D	L2	N	W.G	Price
3600-A	F1/8×M1/8	9/16	.219	1.10	.66		
3600-B	F1/4×M1/4	11/16	.315	1.56	.91		
3600-C	F3/8×M3/8	13/16	.438	1.68	.97		
3600-D	F1/2×M1/2	1"	.562	2.18	1.25		
3600-E	F3/4×M3/4	1"-1/4	.750	2.31	1.38		

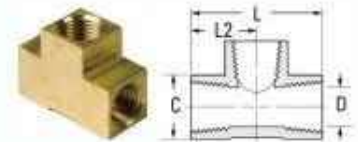
Male Branch Tee
(Ref.SAE No.130425)



S.A.E PIPE FITTINGS

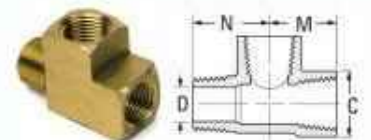
PART#	Thread size	C	D	L2	L	W.G	Price
3700-A	1/8	9/16	.339	.55	1.10		
3700-B	1/4	11/16	.438	.78	1.56		
3700-C	3/8	13/16	.516	.84	1.68		
3700-D	1/2	1"	.703	1.09	2.18		
3700-E	3/4	1"-1/4	.906	1.38	2.31		

Tee
(Ref.SAE.No.130438)



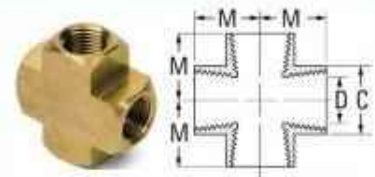
PART#	Thread size	C	D	M	N	W.G	Price
3750-A	1/8	9/16	.219	.55	.66		
3750-B	1/4	11/16	.312	.78	.90		
3750-C	3/8	13/16	.438	.84	.97		
3750-D	1/2	1"	.562	1.09	1.25		
3750-E	3/4	1"-1/4	.750	1.38	1.38		

Male Run Tee
(Ref.SAE.No.130424)



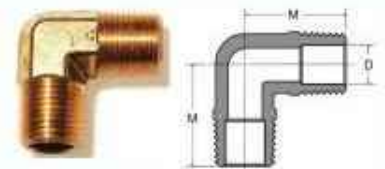
PART#	Thread size	C	D	M	W.G	Price
3950-A	1/8	1/2	.219	.50		
3950-B	1/4	11/16	.312	.75		
3950-C	3/8	13/16	.438	.81		
3950-D	1/2	1"	.562	1.09		

Cross



PART#	Thread size	D	M	N	W.G	Price
3550-A	1/8	.219	.79			
3550-B	1/4	.312	.87			
3550-C	3/8	.438	1.00			
3550-D	1/2	.562	1.38			
3550-BA	1/4x1/8	.219/.312	.87	.87		
3550-CB	3/8x1/4	.438/.312	1.00	.90		
3550-DC	1/2x3/8	.562/.438	1.38	1.00		

Forged 90 Male Elbow



PART#	Thread size	D	M	N	W.G	Price
3800-A	1/8	.219	.75	.75		
3800-B	1/4	.312	.86	.86		
3800-C	3/8	.438	1.09	1.09		
3800-D	1/2	.562	1.22	1.22		

Forged all Male Tee





PIPE FITTINGS

Pipe Fittings

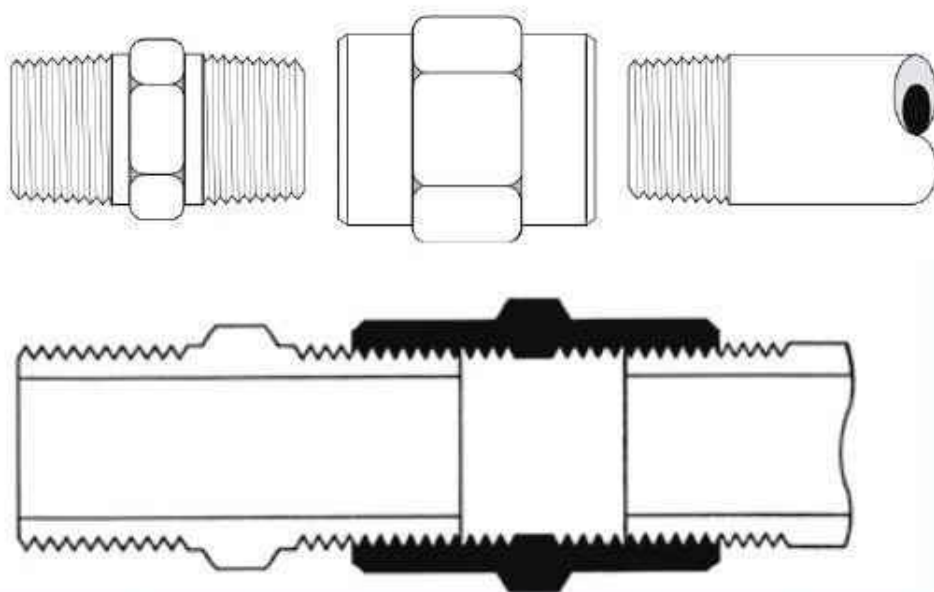
Legines Standards
Dryseal Threads
Forgings & Extruded

Material:

JIS3604 and Hpb59-1 Brass for Barstock fittings
JIS3771 and Hpb58-3 Brass for forged fittings



PIPE FITTINGS



PIPE SIZE	1/16	1/8	1/4	3/8	1/2	3/4	1"
BSPT (R) THREAD SIZE	1/16-28	1/8-28	1/4-19	3/8-19	1/2-14	3/4-14	1"-1.1/2
NPT THREAD SIZE	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1"-1.1/2

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems, Fuel, LP and natural gas available on special order.

Pressure:

Operating pressure up to 1000 psi

Vibration:

Fair resistance.

Temperature Range:

-41° F to +212° F (-5° C to +100° C)

Material:

JIS3604 and Hpb59-1 Brass for Barstock fittings., JIS3771 and Hpb58-3 Brass for forged fittings.

Used With:

Brass, bronze and iron pipe.

Advantages:

Pipe threads (BSPT(R) & NPT). Large range of sizes and configurations.

Actual Male Thread Profiles



PIPE FITTINGS

PART#	Thread size	HEX	L	W.G
BCF-201	1/4×1/8	S14	26	
BCF-302	3/8×1/8	S17	26	
BCF-302	3/8×1/4	S17	29	
BCF-401	1/2×1/8	S24	29.5	
BCF-402	1/2×1/4	S24	32.5	
BCF-403	1/2×3/8	S24	32.5	
BCF-602	3/4×1/4	S30	34	
BCF-603	3/4×3/8	S30	34	

Coupling



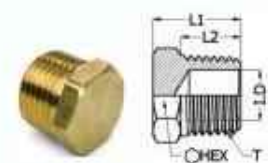
PART#	Thread size	HEX	L	I.D	W.G
BFM-101	F1/8×M1/8	S12	21	.88	
BFM-201	F1/4×M1/8	S17	24	1.06	
BFM-202	F1/4×M1/4	S17	27	1.25	
BFM-301	F3/8×M1/8	S21	24	1.00	
BFM-302	F3/8×M1/4	S21	27	1.25	
BFM-303	F3/8×M3/8	S21	27	1.25	
BFM-402	F1/2×M1/4	S24	30	1.46	
BFM-403	F1/2×M3/8	S24	30	1.47	
BFM-404	F1/2×M1/2	S24	32.5	1.66	
BFM-603	F3/4×M3/8	S30	40	1.59	
BFM-604	F3/4×M1/2	S30	42	1.69	
BFM-606	F3/4×M3/4	S30	42	1.69	

Adapter



PART#	Thread size	HEX	L1	L2	I.D	W.G
BP-01	1/8	S10	14	9	5.5	
BP-02	1/4	S14	17	12	8.0	
BP-03	3/8	S17	17	12	10.5	
BP-04	1/2	S21	21	15	13	
BP-06	3/4	S27	22	15	19.5	
BP-08	1"	S34	25.5	17.5	26	

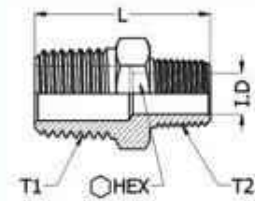
Hex Head Plug



PIPE FITTINGS

PART#	Thread size	HEX	I.D.	L	W.G
BCN-101	1/8x1/8	S10	6.0	23	
BCN-201	1/4x1/8	S14	5.5	26	
BCN-202	1/4x1/4	S14	8.0	29	
BCN-301	3/8x1/8	S17	5.5	26	
BCN-302	3/8x1/4	S17	8.0	29	
BCN-303	3/8x3/8	S17	11.0	29	
BCN-402	1/2x1/4	S21	8.0	32.5	
BCN-403	1/2x3/8	S21	11.0	32.5	
BCN-404	1/2x1/2	S21	14.0	35	
BCN-604	3/4x1/2	S27	14.0	36.5	
BCN-606	3/4x3/4	S27	19.0	37	
BCN-804	1"x1/2"	S34	14.0	40	
BCN-806	1"x3/4"	S34	19.0	40.5	
BCN-808	1"x1"	S34	19.0	43	

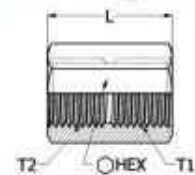
Nipple
Reducing Hex Nipple



13

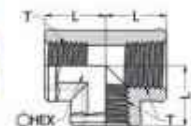
PART#	Thread size	C	L	W.G
BCF-101	1/8x1/8	S14	20	
BCF-202	1/4x1/4	S17	25	
BCF-303	3/8x3/8	S21	25	
BCF-404	1/2x1/2	S24	24	
BCF-606	3/4x3/4	S33	30	

Coupling



PART#	Thread size	HEX	L	W.G
BTF-01	1/8	12.5	13.5	
BTF-02	1/4	17	17	
BTF-03	3/8	20	18.5	
BTF-04	1/2	25	24.5	

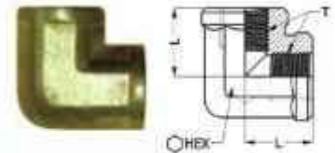
Union Tee



PIPE FITTINGS

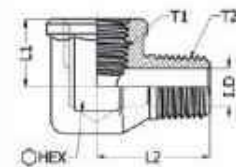
PART#	Thread size	HEX	L	W.G
BLF-01	1/8	12.5	14.5	
BLF-02	1/4	17	17	
BLF-03	3/8	20	20	
BLF-04	1/2	25	24.5	

Union Elbow



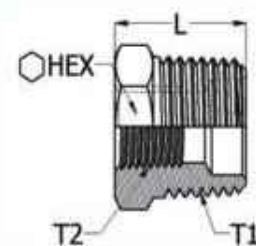
PART#	T1	T2	L1	L2	I.D	W.G
BLFM-101	1/8	1/8	15.5	19.5	5.5	
BLFM-102	1/8	1/4	13.5	23.5	8	
BLFM-201	1/4	1/8	14.5	21	5.5	
BLFM-202	1/4	1/4	14.5	24	8	
BLFM-203	1/4	3/8	15.5	27.5	11	
BLFM-301	3/8	1/8	15.5	24	5.5	
BLFM-302	3/8	1/4	15.5	27	8	
BLFM-303	3/8	3/8	15.5	27.5	11	
BLFM-304	3/8	1/2	16.5	33	14	
BLFM-403	1/2	3/8	18.5	28.5	11	
BLFM-404	1/2	1/2	18.5	33	14	

Street Elbow



PART#	Thread size	HEX	L	W.G
BBU-201	M1/4xF1/8	S14	14	
BBU-301	M3/8xF1/8	S17	17	
BBU-302	M3/8xF1/4	S17	17	
BBU-401	M1/2xF1/8	S21	21	
BBU-402	M1/2xF1/4	S21	21	
BBU-403	M1/2xF3/8	S21	21	
BBU-602	M3/4xF1/4	S27	22	
BBU-603	M3/4xF3/8	S27	22	
BBU-604	M3/4xF1/2	S27	22	
BBU-802	M1"xF1/4	S34	26	
BBU-803	M1"xF3/8	S34	26	
BBU-804	M1"xF1/2	S34	26	
BBU-806	M1"xF3/4	S34	26	

Bushing





SAE 45° Flare

SAE 45° Flare

Resists Mechanical Pull-out
Meets SAE Functional
Requirements
Resists Vibration
UL listed

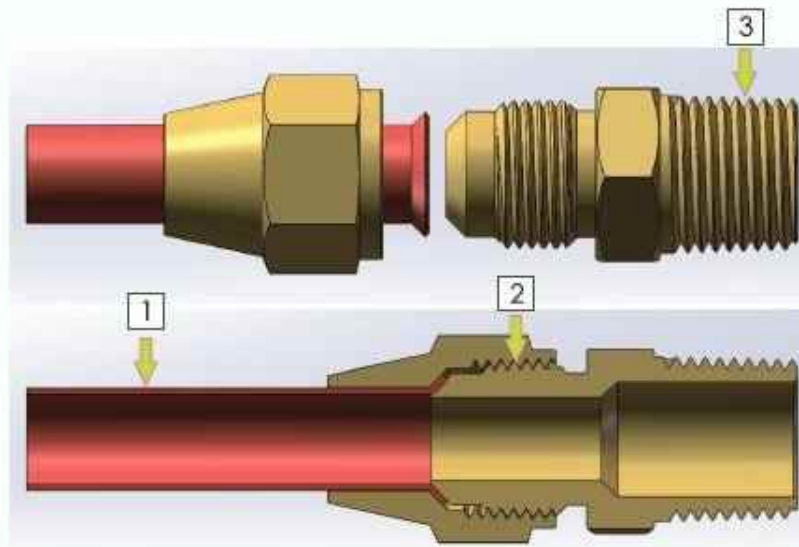


Fittings meet the requirements of the specific
SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)

SAE 45° FLARE



1 Tube 2 Thread Size 3 pipe thread

Flare Flare O.D	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Thread Size-B	5/16-24	3/8-24	7/16-18	1/2-20	5/8-18	3/4-16	7/8-14	1-1/6-14

Typical Application:

LP and natural gas, flammable liquids (special order), instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

Pressure:

Working pressure up to 2000 psi depending on TUBE size, depending on size. Will withstand burst pressure of standard tubing - up to 5000 psi with Bundy-weld (double flared) and 3500 psi with copper tubing.

Vibration:

Good resistance - use long nut when greater vibration resistance is required.

Temperature Range:

-65° F to +250° F (-53° C to +121° C) range at maximum operating pressures.

Material:

CA 360 Brass for Barstock fittings, CA377 Brass for forged fittings

Used With:

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

Advantages:

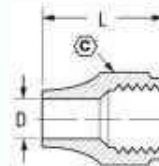
Low cost and reusability, long or short nut. Good resistance to vibration.



SAE 45° FLARE

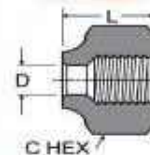
PART#	Flare O.D	C	D	L	W.G	Price
440-2	1/8	3/8	.133	.50		
440-3	3/16	7/16	.195	.62		
440-4	1/4	9/16	.258	.75		
440L-4	1/4	1/2	.258	.75		
440-5	5/16	5/8	.320	.88		
440-6	3/8	3/4	.383	1.00		
440L-6	3/8	3/4	.383	.88		
440-7	7/16	13/16	.445	1.06		
440-8	1/2	7/8	.508	1.12		
440L-8	1/2	7/8	.508	.93		
440-10	5/8	1-1/16	.633	1.31		
440-12	3/4	1-1/4	.758	1.50		

Short Rod Nut
(Ref.SAE.No.010110)



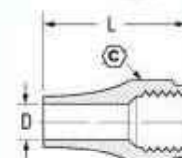
PART#	Flare O.D	C	D	L	W.G	Price
440S-4	1/4	5/8	.258	.60		
440S-5	5/16	11/16	.320	.66		
440S-6	3/8	13/16	.383	.70		
440S-8	1/2	15/16	.508	.82		
440S-10	5/8	1-1/16	.633	.95		
440S-12	3/4	1-5/16	.758	1.16		

Short Froged Nut
(Ref.SAE.No.010110)



PART#	Flare O.D	C	D	L	W.G	Price
441-3	3/16	7/16	.195	.81		
441-4	1/4	9/16	.258	.94		
441-5	5/16	5/8	.320	1.12		
441-6	3/8	3/4	.383	1.31		
441-8	1/2	7/8	.508	1.62		
441-10	5/8	1-1/16	.633	1.88		

Long Rod Nut
(Ref.SAE.No.010111)



SAE 45° FLARE

PART#	Flare O.D	C	D	L	W.G	Price
441S-4	1/4	9/16	.258	.94		
441S-5	5/16	5/8	.320	1.12		
441S-6	3/8	3/4	.383	1.31		
441S-8	1/2	7/8	.508	1.62		
441S-10	5/8	1-1/16	.633	1.88		
*441S-12	3/4	1-1/4	.758	1.90		

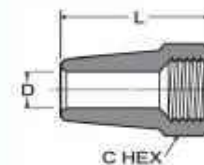
* Made to order

PART#	Flare O.D	C	W.G	Price
U440-4	1/4	9/16		
U440-5	5/16	5/8		
U440-6	3/8	3/4		
U440-8	1/2	7/8		
U440-10	5/8	1-1/16		
U440-12	3/4	1-1/4		

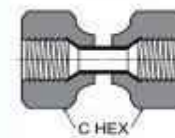
PART#	Flare O.D	C	L	W.G	Price
40-2	1/8	7/16	.40		
40-3	3/16	1/2	.47		
40-4	1/4	9/16	.53		
40-5	5/16	5/8	.62		
40-6	3/8	3/4	.69		
40-8	1/2	7/8	.84		
40-10	5/8	1-1/16	.97		
40-12	3/4	1-1/4	1.09		

PART#	Flare O.D	C	D1	L	W.G	Price
39-2	1/8	7/16	.079	.47		
39-3	3/16	1/2	.126	.58		
39-4	1/4	9/16	.189	.69		
39-5	5/16	5/8	.220	.78		
39-6	3/8	3/4	.282	.88		
39-8	1/2	7/8	.408	1.06		
39-10	5/8	1-1/16	.502	1.19		
39-12	3/4	1-1/4	.627	1.31		

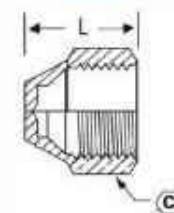
Short Rod Nut
(Ref.SAE No.010110)



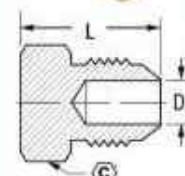
Swivel Nut Connector



Cap



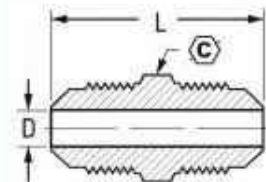
Plug
(Ref.SAE No.010109)



SAE 45° FLARE

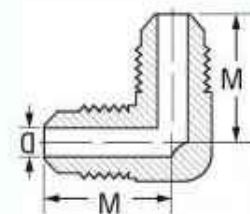
PART#	Flare O.D.	C	D	L	W.G	Price
42-2	1/8	7/16	.079	.91		
42-3	3/16	1/2	.126	1.06		
42-4	1/4	9/16	.189	1.19		
42-5	5/16	5/8	.220	1.34		
42-6	3/8	3/4	.282	1.50		
42-8	1/2	7/8	.408	1.81		
42L-8	1/2	7/8	.408	1.67		
42-10	5/8	1-1/16	.502	2.12		
42L-10	5/8	1-1/16	.502	2.00		
42-12	3/4	1-5/16	.627	1.31		
42-5X4	5/16X1/4	5/8		1.28		
42-6X4	3/8X1/4	3/4		1.38		
42-6X5	3/8X5/16	3/4		1.44		
42-8X4	1/2X1/4	7/8		1.53		
42-8X6	1/2X3/8	7/8		1.69		
42-10X6	5/8X3/8	1-1/16		1.88		
42-10X8	5/8X1/2	1-1/16		1.87		

Union
(Ref.SAE.No.010101)



PART#	Flare O.D.	C	D	M	W.G	Price
55-2	1/8	3/8	.079	.64		
55-3	3/16	3/8	.126	.73		
55-4	1/4	3/8	.189	.81		
55-5	5/16	7/16	.220	.92		
55-6	3/8	7/16	.282	1.04		
55-8	1/2	9/16	.408	1.31		
55-10	5/8	11/16	.502	1.39		
55-12	3/4	7/8	.627	1.53		
55-6X4	3/8X1/4	7/16				
55-8X6	1/2X3/8	7/16				
55-10X8	5/8X1/2	11/16				

Forged 90° Flare Elbow
(Ref.SAE.No.010201)

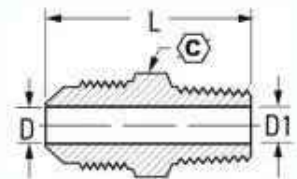


*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

SAE 45° FLARE

PART#	Flare O.D x Thread	C	D	D1	L	W.G	Price
48-2A	1/8x1/8	7/16	.079	.219	.92		
48-3A	3/16x1/8	7/16	.126	.219	1.00		
48-4A	1/4x1/8	7/16	.189	.219	1.06		
48-4B	1/4x1/4	9/16	.189	.312	1.25		
48L-4B	1/4x1/4	9/16	.189	.330	1.15		
48-4C	1/4x3/8	11/16	.189	.438	1.31		
48L-4C	1/4x3/8	11/16	.189	.438	1.21		
48-4D	1/4x1/2	7/8	.189	.562	1.44		
48L-4D	1/4x1/2	7/8	.189	.562	1.37		
48-5A	5/16x1/8	1/2	.219	.219	1.16		
48-5B	5/16x1/4	9/16	.219	.312	1.34		
48L-5B	5/16x1/4	9/16	.219	.330	1.22		
48-5C	5/16x3/8	9/16	.219	.438	1.36		
48-6A	3/8x1/8	5/8	.282	.219	1.25		
48-6B	3/8x1/4	5/8	.282	.312	1.44		
48L-6B	3/8x1/4	5/8	.282	.330	1.31		
48-6C	3/8x3/8	11/16	.282	.438	1.44		
48L-6C	3/8x3/8	11/16	.282	.438	1.32		
48-6D	3/8x1/2	7/8	.282	.562	1.62		
48L-6D	3/8x1/2	7/8	.282	.562	1.44		
48-6E	3/8x3/4	1-1/8	.282	.750	1.59		
48-8B	1/2x1/4	3/4	.408	.312	1.60		
48-8C	1/2x3/8	3/4	.408	.438	1.62		
48L-8C	1/2x3/8	3/4	.408	.438	1.46		
48-8D	1/2x1/2	7/8	.408	.562	1.79		
48L-8D	1/2x1/2	7/8	.408	.562	1.56		
48-8E	1/2x3/4	1-1/16	.408	.750	1.75		
48L-8E	1/2x3/4	1-1/16	.408	.750	1.68		
48-10B	5/8x1/4	7/8	.500	.312	1.81		
48-10C	5/8x3/8	7/8	.500	.438	1.81		
48L-10C	5/8x3/8	7/8	.500	.438	1.67		
48-10D	5/8x1/2	7/8	.500	.562	2.00		
48L-10D	5/8x1/2	7/8	.500	.562	1.75		
48-10E	5/8x3/4	1-1/16	.500	.750	1.85		
48-12D	3/4x1/2	1-1/16	.625	.562	2.00		
48-12E	3/4x3/4	1-1/16	.625	.750	2.06		

MALE ADAPTER
(Ref.SAE.No.010102)



"L" means light pattern.

These fittings are completely interchangeable with full pattern fittings, but have been modified in some way.

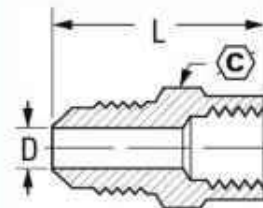
This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

SAE 45° FLARE

PART#	Flare O.D x Thread	C	D	L	W.G	Price
46-2A	1/8x1/8	9/16	.009	.91		
46-3A	3/16x1/8	9/16	.126	.97		
46-4A	1/4x1/8	9/16	.189	1.03		
46-4B	1/4x1/4	11/16	.189	1.23		
46L-4B	1/4x1/4	11/16	.189	1.06		
46-4C	1/4x3/8	13/16	.189	1.18		
46-4D	1/4x1/2	15/16	.189	1.31		
46-5A	5/16x1/8	5/8	.219	1.06		
46-5B	5/16x1/4	11/16	.219	1.28		
46-5C	5/16x3/8	13/16	.219	1.69		
46-6A	3/8x1/8	5/8	.282	1.09		
46-6B	3/8x1/4	11/16	.282	1.31		
46L-6B	3/8x1/4	11/16	.282	1.25		
46-6C	3/8x3/8	13/16	.282	1.25		
46-6D	3/8x1/2	1"	.282	1.60		
46L-6D	3/8x1/2	15/16	.282	1.31		
46-6E	3/8x3/4	1-1/16	.282	1.41		
46-8B	1/2x1/4	3/4	.408	1.37		
46-8C	1/2x3/8	13/16	.408	1.50		
46L-8C	1/2x3/8	13/16	.408	1.38		
46-8D	1/2x1/2	1"	.408	1.75		
46L-8D	1/2x1/2	7/8	.408	1.42		
46-8E	1/2x3/4	1-3/16	.408	1.60		
46-10C	5/8x3/8	7/8	.500	1.24		
46-10D	5/8x1/2	1"	.500	1.62		
46-12D	3/4x1/2	1-3/16	.625	1.74		
46-12E	3/4x3/4	1-3/16	.625	1.75		

Female Connector
(Ref.SAE No.010103)



"L" means light pattern.

These fittings are completely

interchangeable with full

pattern fittings, but have been

modified in some way.

This modification is usually in

the length of the pipe threads.

Used in plumbing and light

industrial applications

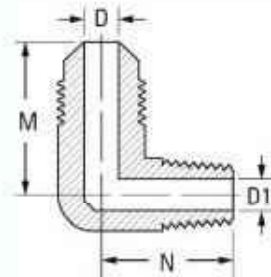
*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

SAE 45° FLARE

PART#	Flare O.D x Thread	D1	D	M	N	W.G	Price
49-2A	18x1/8	.219	.126	.63	.73		
49-3A	3/16x1/8	.219	.126	.75	.75		
49-4A	1/4x1/8	.219	.189	.81	.76		
49-4B	1/4x1/4	.312	.189	.88	.94		
49-4C	1/4x3/8	.438	.189	.92	1.01		
49-4D	1/4x1/2	.562	.189	1.02	1.09		
49-5A	5/16x1/8	.219	.219	.91	.88		
49-5B	5/16x1/4	.312	.219	.95	.95		
49-5C	5/16x3/8	.438	.219	.98	1.01		
49-6A	3/8x1/8	.219	.282	1.00	.91		
49-6B	3/8x1/4	.438	.282	1.06	1.01		
49-6C	3/8x3/8	.438	.282	1.05	1.08		
49-6D	3/8x1/2	.562	.282	1.10	1.00		
49-8B	1/2x1/4	.312	.408	1.19	1.00		
49-8C	1/2x3/8	.438	.408	1.19	1.00		
49-8D	1/2x1/2	.562	.408	1.16	1.13		
49-8E	1/2x3/4	.750	.408	1.38	1.38		
49-10B	5/8x1/4	.312	.500	1.34	1.22		
49-10C	5/8x3/8	.438	.500	1.34	1.22		
49-10D	5/8x1/2	.562	.500	1.35	1.38		
49-10E	5/8x3/4	.750	.500	1.44	1.38		
49-12D	3/4x1/2	.562	.625	1.60	1.48		
49-12E	3/4x3/4	.750	.625	1.60	1.62		

*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

Forged 90° Male Elbow
(Ref.SAE No.010202)



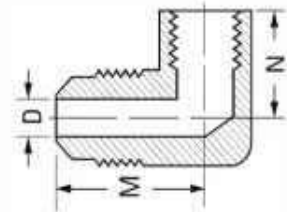
SAE 45° FLARE

PART#	Flare O.DxThread	D	M	N	W.G	Price
50-3A	3/16x1/8	.126	.81	.48		
50-4A	1/4x1/8	.189	.90	.48		
50-4B	1/4x1/4	.189	.97	.65		
50-4C	1/4x3/8	.189	1.03	.60		
50-4D	1/4x1/2	.189	1.08	.66		
50-5A	5/16x1/8	.219	.94	.88		
50-5B	5/16x1/4	.219	1.03	.60		
50-5C	5/16x3/8	.219	1.05	.60		
50-6A	3/8x1/8	.282	1.00	.88		
50-6B	3/8x1/4	.282	1.06	.60		
50-6C	3/8x3/8	.282	1.06	.60		
50-6D	3/8x1/2	.282	1.23	.78		
50-8B	1/2x1/4	.408	1.25	.70		
50-8C	1/2x3/8	.408	1.25	.70		
50-8D	1/2x1/2	.408	1.36	.80		
50-8E	1/2x3/4	.408	1.51	.92		
50-10D	5/8x1/2	.500	1.42	.82		
50-10E	5/8x3/4	.500	1.64	.95		

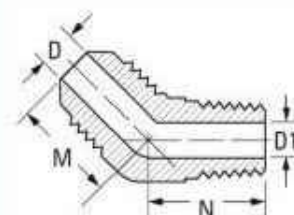
*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

PART#	Flare O.DxThread	D	D1	M	N	W.G	Price
54-4A	1/4x1/8	.189	.219	.67	.64		
54-4B	1/4x1/4	.189	.312	.75	.86		
54-5A	5/16x1/8	.219	.219	.78	.64		
54-5B	5/16x1/4	.219	.312	.81	.86		
54-6B	3/8x1/4	.282	.312	.91	.86		
54-6C	3/8x3/8	.282	.438	.93	.94		
54-6D	3/8x1/2	.282	.562	.99	1.17		
54-8C	1/2x3/8	.408	.438	1.07	.88		
54-8D	1/2x1/2	.408	.562	1.12	1.17		
54-10C	5/8x3/8	.500	.438	1.13	.95		
54-10D	5/8x1/2	.500	.562	1.13	1.17		
54-12D	3/4x1/2	.625	.750	1.28	1.17		
54-12E	3/4x3/4	.625	.750	1.41	1.20		

Forged 90° Female Elbow
(Ref.SAE No.010203)



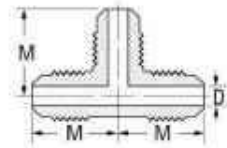
Forged 45° Male Elbow
(Ref.SAE No.010302)



SAE 45° FLARE

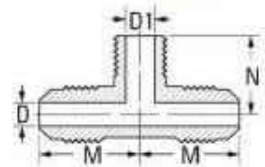
PART#	Flare O.D	D	M	W.G	Price
44-2	1/8	.079	.67		
44-3	3/16	.126	.75		
44-4	1/4	.189	.78		
44-5	5/16	.219	.91		
44-6	3/8	.282	1.00		
44-8	1/2	.408	1.16		
44-10	5/8	.500	1.41		
44-12	3/4	.625	1.64		

Forged Union Tee
(Ref.SAENo.010401)



PART#	Flare O.D x Thread	D	M	N	W.G	Price
45-3A	3/16 x 1/8	.126	.75	.75		
45-4A	1/4 x 1/8	.189	.78	.78		
45-4B	1/4 x 1/4	.189	.88	.88		
45-5A	5/16 x 1/8	.219	.88	.80		
45-5B	5/16 x 1/4	.219	1.00	.94		
45-6B	3/8 x 1/4	.282	1.00	.94		
45-6C	3/8 x 3/8	.282	1.00	1.00		
45-6D	3/8 x 1/2	.282	1.12	1.12		
45-8C	1/2 x 3/8	.408	1.16	1.09		
45-8D	1/2 x 1/2	.408	1.22	1.22		
45-10D	5/8 x 1/2	.500	1.41	1.31		
45-12D	3/4 x 1/2	.625	1.63	1.59		
45-12E	3/4 x 3/4	.625	1.63	1.44		

Forged Male Branch Tee
(Ref.SAENo.010425)



24

PART#	Flare O.D	A	W.G	Price
2GF-3	3/16	.32		
2GF-4	1/4	.36		
2GF-5	5/16	.43		
2GF-6	3/8	.56		
2GF-8	1/2	.67		
2GF-10	5/8	.78		
2GF-12	3/4	.97		

Copper Flare Gasket
(Ref.SAENo.010113)



SAE 45° FLARE

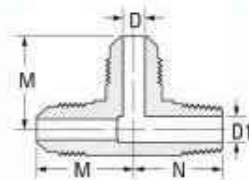
PART#	Flare O.D	A	W.G	Price
3GF-3	3/16	.32		
3GF-4	1/4	.36		
3GF-5	5/16	.43		
3GF-6	3/8	.56		
3GF-8	1/2	.67		
3GF-10	5/8	.78		
3GF-12	3/4	.97		

Seal Bonnet
(Ref.SAENo.010114)



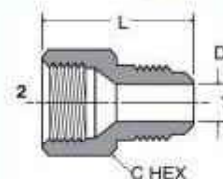
PART#	Flare O.D x NPTF	D	M	N	W.G	Price
51-3A	3/16x1/8	.126	.75	.75		
51-4A	1/4x1/8	.189	.78	.75		
51-4B	1/4x1/4	.189	.88	.88		
51-5A	5/16x1/8	.219	.88	.80		
51-5B	5/16x1/4	.219	1.00	.94		
51-6B	3/8x1/4	.282	1.00	.94		
51-6C	3/8x3/8	.282	1.00	1.00		
51-6D	3/8x1/2	.282	1.12	1.22		
51-8C	1/2x3/8	.408	1.16	1.09		
51-8D	1/2x1/2	.408	1.22	1.22		
51-10D	5/8x1/2	.500	1.41	1.31		
51-12D	3/4x1/2	.625	1.63	1.59		
51-12E	3/4x3/4	.625	1.63	1.44		

Forged Male
Run Tee
(Ref.SAENo.010424)



PART#	Flare x2Flare	C	D	L	W.G	Price
447-4x6	1/4x3/8	13/16	.189	1.20		
447-4x8	1/4x1/2	15/16	.189	1.36		
447-6x4	3/8x1/4	5/8	.281	1.10		
447-6x8	3/8x1/2	15/16	.281	1.42		
447-8x6	1/2x3/8	13/16	.406	1.39		
447-8x10	1/2x5/8	1-1/16	.406	1.67		
447-10x8	5/8x1/2	15/16	.502	1.60		
447-10x12	5/8x3/4	1-5/16	.502	1.95		
447-12x10	3/4x5/8	1-5/16	.626	1.86		

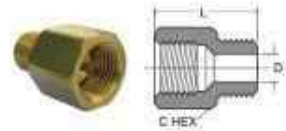
Female Adapter
(Ref.SAENo.010105)



SAE 45° FLARE

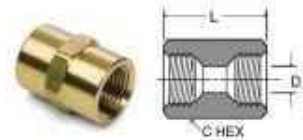
PART#	Flare O.D×Thread	C	D	L	W.G	Price
433-3A	3/16×1/8	5/8	.219	.91		
433-4B	1/4×1/4	5/8	.250	1.01		
433-6B	5/16×1/4	13/16	.344	1.28		
433-8C	3/8×3/8	13/16	.405	1.36		

Female Flare Adapter
(Ref.SAENo.010106)



PART#	Flare O.D	C	D	L	W.G	Price
432-4	1/4	5/8	.250	1.03		
432-6	3/8	13/16	.375	1.26		
432-8	1/2	15/16	.500	1.43		
432-10	5/8	1-1/16	.625	1.69		

Union Flare
(Ref.SAENo.010107)





HOSE BARB

Mini Hose Barb Fittings

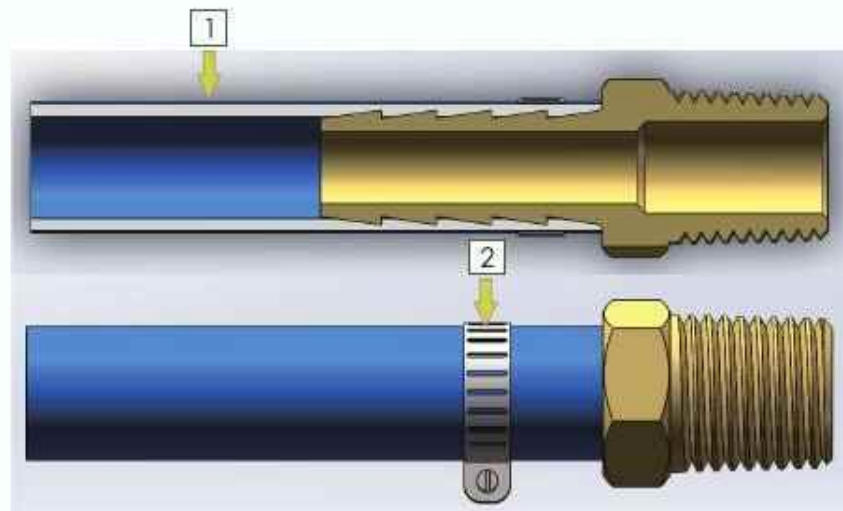
Use with Polyethylene Tubing
Economical
One-piece
Compact
Reusable



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



HOSE BARB



1 Tube

2 Hose Clamps

Typical Application:

Temperature control circuits, pneumatic circuits, vacuum and fluid systems test apparatus, lubricant, coolant lines,

Pressure:

Will withstand burst pressures of plastic tubing

Vibration:

Excellent resistance

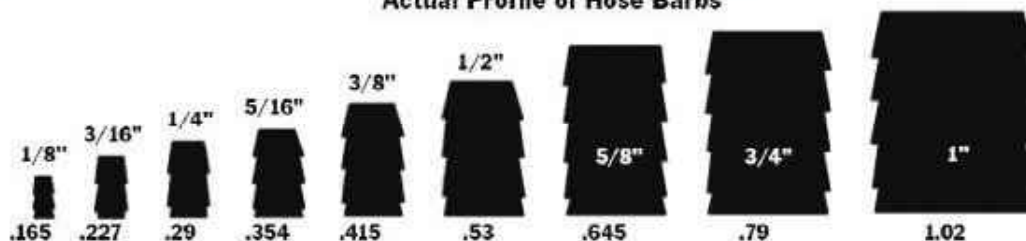
Temperature Range:

From -40° F to 160° F.

Material:

CA 360 Brass for Barstock fittings., CA377 Brass for forged fittings

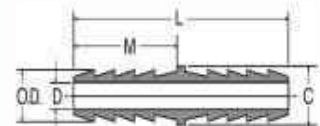
Actual Profile of Hose Barbs



HOSE BARB

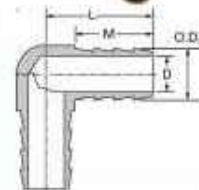
PART#	HOSE I.D.	C	D	M	L	W.G	Price
121-2	1/8	5/16	.09	.45	.98		
121-3	3/16	5/16	.13	.77	1.62		
121-4	1/4	3/8	.195	.95	2.00		
121-5	5/16	7/16	.250	.95	2.00		
121-6	3/8	1/2	.280	.97	2.00		
121-8	1/2	5/8	.380	.96	2.00		
121-10	5/8	3/4	.530	.97	2.00		
121-12	3/4	7/8	.560	.97	2.00		

Hose Mnder/Splicer



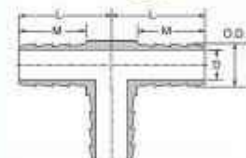
PART#	HOSE I.D.	D	M	L	W.G	Price
122-3	3/16	.125	.63	1.00		
122-4	1/4	.187	.63	1.00		
122-5	5/16	.250	.63	1.00		
122-6	3/8	.281	.63	1.01		
122-8	1/2	.375	.65	1.02		
122-10	5/8	.530	.87	1.26		
122-12	3/4	.790	.87	1.45		

90° Hose Barb Elbow



PART#	HOSE I.D.	D	M	L	W.G	Price
123-3	3/16	.125	.63	1.00		
123-4	1/4	.187	.63	1.00		
123-5	5/16	.250	.63	1.00		
123-6	3/8	.281	.63	1.01		
123-8	1/2	.375	.65	1.02		
123-10	5/8	.530	.87	1.26		
123-12	3/4	.790	.87	1.45		

Hose Barb Tees

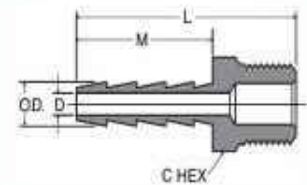


HOSE BARB

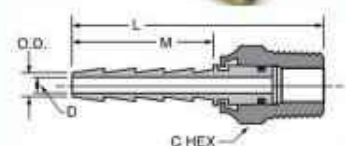
PART#	HOSE×NPTF	C	D	M	L	W.G	Price
125-2A	1/8×1/8	7/16	.093	.50	1.01		
125-2B	1/8×1/4	9/16	.093	.50	1.17		
125-3A	3/16×1/8	7/16	.125	.70	1.21		
125-3B	3/16×1/4	9/16	.125	.70	1.41		
125-4A	1/4×1/8	7/16	.187	.97	1.54		
125-4B	1/4×1/4	9/16	.187	.97	1.72		
125-4C	1/4×3/8	11/16	.187	.97	1.71		
125-4D	1/4×1/2	7/8	.187	.87	1.72		
125-5A	5/16×1/8	7/16	.250	.97	1.47		
125-5B	5/16×1/4	9/16	.250	.97	1.72		
125-4C	5/16×3/8	11/16	.250	.97	1.76		
125-4D	5/16×1/2	7/8	.250	.97	1.86		
125-6A	3/8×1/8	7/16	.281	.97	1.53		
125-6B	3/8×1/4	9/16	.281	.97	1.75		
125-6C	3/8×3/8	11/16	.281	.97	1.71		
125-6D	3/8×1/2	7/8	.281	.97	1.87		
125-8B	1/2×1/4	9/16	.375	.97	1.72		
125-8C	1/2×3/8	11/16	.375	.97	1.72		
125-8D	1/2×1/2	7/8	.375	.97	1.86		
125-8E	1/2×3/4	1-1/16	.375	.97	1.94		
125-10C	5/8×3/8	11/16	.468	.97	1.76		
125-10D	5/8×1/2	7/8	.468	.97	1.86		
125-10E	5/8×3/4	1-1/16	.468	.97	1.87		
125-12D	3/4×1/2	7/8	.562	.97	1.79		
125-12E	3/4×3/4	1-1/16	.562	.97	1.87		
125-16E	1"×3/4	1-1/16	.875	1.18	2.08		
125-16H	1"×1"	1-3/8	.875	1.18	2.34		

PART#	HOSE×NPTF	C	D	M	L	W.G	Price
125S-4A	1/4×1/8	9/16	.281	.97	2.12		
125S-4B	1/4×1/4	9/16	.281	.97	2.12		
125S-6A	3/8×1/8	9/16	.375	.97	2.12		
125S-6B	3/8×1/4	9/16	.375	.97	2.12		
125S-6C	3/8×3/8	11/16	.375	.97	2.12		
125S-8C	1/2×3/8	11/16	.406	.97	2.14		
125S-8D	1/2×1/2	7/8	.406	.97	2.33		
125S-12E	3/4×3/4	1-1/16	.562	.97	2.33		

Male Adapter



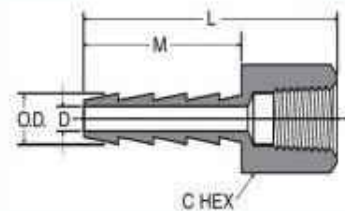
Swivel Male Adapter



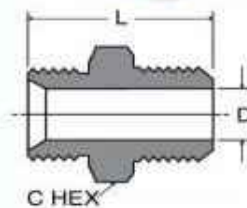
HOSE BARB

PART#	HOSE×NPTF	C	D	M	L	W.G	Price
126-2A	1/8×1/8	1/2	.093	.46	.96		
126-4A	1/8×1/4	5/8	.093	.46	1.15		
126-3A	3/16×1/8	1/2	.125	.68	1.10		
126-3B	3/16×1/4	5/8	.125	.75	1.44		
126-4A	1/4×1/8	1/2	.187	.97	1.35		
126-4B	1/4×1/4	5/8	.187	.97	1.58		
126-4C	1/4×3/8	3/4	.187	.97	1.59		
126-4D	1/4×1/2	15/16	.187	.97	1.66		
126-5A	5/16×1/8	9/16	.250	.97	1.47		
126-5B	5/16×1/4	5/8	.250	.97	1.66		
126-4C	5/16×3/8	3/4	.250	.97	1.66		
126-6A	3/8×1/8	9/16	.281	.97	1.47		
126-6B	3/8×1/4	5/8	.281	.97	1.61		
126-6C	3/8×3/8	13/16	.281	.97	1.63		
126-6D	3/8×1/2	15/16	.281	.97	1.76		
126-8B	1/2×1/4	5/8	.375	.97	1.66		
126-8C	1/2×3/8	13/16	.375	.97	1.66		
126-8D	1/2×1/2	1"	.375	.97	1.76		

Female Adapter



Ball-end joint Adapter To Male Pipe



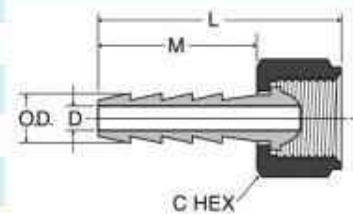
(For use with 1285V)

PART#	NPSM×NPTF	C	D	L	W.G	Price
127-4A	1/4×1/8	9/16	.219	.91		
127-4B	1/4×1/4	9/16	.281	1.02		
127-6B	3/8×1/4	11/16	.312	1.02		
127-6C	3/8×3/8	11/16	.406	1.09		
127-8C	1/2×3/8	7/8	.406	1.19		
127-8D	1/2×1/2	7/8	.531	1.39		

HOSE BARB

PART#	HOSE×NPSM	C	D	M	L	W.G	Price
128SV-3A	3/16×1/8	1/2	.187	.75	1.18		
128SV-4A	1/4×1/8	1/2	.187	.97	1.40		
128SV-4B	1/4×1/4	5/8	.187	.97	1.50		
128SV-4C	1/4×3/8	3/4	.187	.97	1.58		
128SV-5B	5/16×1/4	5/8	.250	.97	1.50		
128SV-5C	5/16×3/8	3/4	.250	.97	1.58		
128SV-6B	3/8×1/4	5/8	.281	.97	1.63		
128SV-6C	3/8×3/8	3/4	.281	.97	1.50		
128SV-6D	3/8×1/2	15/16	.281	.97	1.65		
128SV-8C	1/2×3/8	3/4	.375	.97	1.55		
128SV-8D	1/2×1/2	15/16	.375	.97	1.65		

Hose Barb to Swivel
Female Ball-End

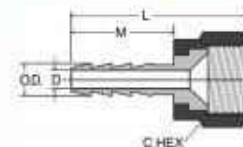


PART#	HOSE×Flare	C	D	M	L	W.G	Price
*146SV-4-4	1/4×7/16-20	9/16	.187	.97	1.55		
*146SV-4-6	1/4×5/8-18	3/4	.187	.97	1.65		
*146SV-6-6	3/8×5/8-18	3/4	.281	.97	1.65		
*146SV-8-8	1/2×3/4-16	7/8	.375	.97	1.70		
**1146SV-4-4	1/4×7/16-20	9/16	.187	.97	1.55		
**1146SV-6-6	3/8×5/8-18	3/4	.281	.97	1.65		

*Female 45° SAE Flare Swivel

**Female 37° JIC Flare Swivel

Hose Barb to Swivel
45° Female Flare



PART#	HOSE×Flare	D	N	M	L	W.G	Price
139-4A	1/4×1/8	.187	.55	.63	.91		
139-4B	1/4×1/4	.187	.62	.76	1.04		
139-5A	5/16×1/8	.250	.60	.83	.83		
139-6A	3/8×1/8	.281	.66	.63	.83		
139-6B	3/8×1/4	.281	.84	.63	.82		
139-6C	3/8×3/8	.281	.87	.63	.93		
139-8B	1/2×1/4	.375	.84	.63	1.00		
139-8C	1/2×3/8	.375	.87	.68	1.00		
139-8D	1/2×1/2	.375	.94	.68	1.15		

Hose Barb 45° Elbow



HOSE BARB

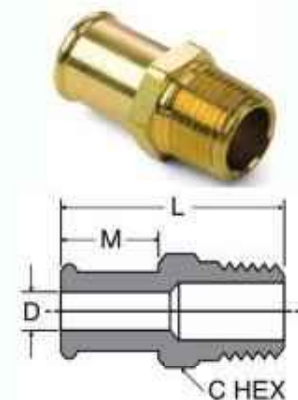
PART#	HOSExNPTF	D	N	M	L	W.G	Price
129-3A	3/16x1/8	.125	.84	.84	1.18		
*129-4A	1/4x1/8	.187	.66	.76	1.04		
*129-4B	1/4x1/4	.187	.86	.76	1.10		
129-4C	1/4x3/8	.187	.97	.97	1.58		
129-5A	5/16x1/8	.250	.81	.76	1.01		
*129-5B	5/16x1/4	.250	.86	.76	1.04		
*129-5C	5/16x3/8	.250	.94	.97	1.58		
129-6A	3/8x1/8	.281	.81	.78	1.12		
*129-6B	3/8x1/4	.281	.84	.78	1.13		
*129-6C	3/8x3/8	.281	.95	.78	1.25		
*129-6D	3/8x1/2	.281	1.13	.78	1.35		
129-8B	1/2x1/4	.415	1.00	.78	1.17		
129-8C	1/2x3/8	.415	1.00	.78	1.17		
*129-8D	1/2x1/2	.415	1.13	.79	1.36		
129-10C	5/8x3/8	.530		.87	1.31		
129-10D	5/8x1/2	.530		.87	1.36		
129-12D	3/4x1/2	.790		.87	1.36		
129-12E	3/4x3/4	.790		.91	1.46		

* PTF Short Thread

Forged Hose Barb
90° Elbow



Beaded Hose Barb
To Male Pipe

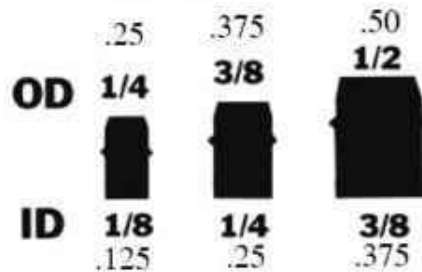


PART#	HOSExNPTF	C	D	M	L	W.G	Price
168-6C	3/8x3/8	11/16	.281	.78	1.53		
168-8B	1/2x1/4	5/8	.375	.78	1.56		
168-8C	1/2x3/8	11/16	.406	.78	1.53		
168-8D	1/2x1/2	7/8	.406	.79	1.73		
168-10C	5/8x3/8	3/4	.501	.88	1.62		
168-10D	5/8x1/2	7/8	.501	.88	1.92		
168-12D	3/4x1/2	7/8	.564	.88	1.98		
168-12E	3/4x3/4	1-1/16	.564	.97	2.04		
168-16E	1"x3/4	1-1/8	.750	1.00	2.12		
168-16H	1"x1"	1-3/8	.812	1.00	2.31		

HOSE BARB

*Quick connecting fittings that do not require tube preparations handassembly.
Inexpensive with excellent resistance to vibration

* All sizes are tube O.D. (HOSE)



Plug

PART#	TUBE I.D	C	L	M	W.G	Price
20-4	1/4	.290	.56	.41		
20-6	3/8	.390	.68	.44		
20-8	1/2	.577	.81	.56		

Male Adapt

PART#	I.DxNPT	D	L	C	W.G	Price
26-5/32A	5/32x1/8	.062	.84	7/16		
26-4-1	1/4x1/16	.120	.93	3/8		
26-4A	1/4x1/8	.120	.97	7/16		
26-4B	1/4x1/4	.120	1.09	9/16		
26-6A	3/8x1/8	.187	1.00	7/16		
26-6B	3/8x1/4	.187	1.13	9/16		
26-8B	1/2x1/4	.312	1.25	9/16		
26-8C	1/2x3/8	.312	1.28	11/16		
26-8D	1/2x1/2	.312	1.44	7/8		

Female Adapter

PART#	I.DxNPT	D	L	C	W.G	Price
26-4A	1/4x1/8	.120	.91	1/2		
26-4B	1/4x1/4	.120	.93	11/16		
26-6A	3/8x1/8	.187	.93	1/2		
26-6B	3/8x1/4	.187	1.06	11/16		

Union

PART#	TUBE I.D	D	L	M	W.G	Price
22-5/32	5/32	.062	.59	.28		
22-4	1/4	.120	.84	.41		
22-6	3/8	.187	.94	.44		
22-8	1/2	.312	1.19	.56		
22-4-5/32	1/4x5/32	.062	.72			
22-4-6	1/4x3/8	.120	.88			
22-4-8	1/4x1/2	.120	1.06			
22-6-8	3/8x1/2	.187	1.06			

Male Elbow

PART#	I.DxNPT	D	M	N	W.G	Price
29-5/32A	5/32x1/8	.062	.56	.63		
29-4-1	1/4x1/16	.120	.62	.60		
29-4A	1/4x1/8	.120	.69	.63		
29-4B	1/4x1/4	.120	.72	.72		
29-6A	3/8x1/8	.187	.69	.69		
29-6B	3/8x1/4	.187	.75	.75		
28-8B	1/2x1/4	.312	.94	.74		
28-8C	1/2x3/8	.312	.94	.81		

Union Tee

PART#	TUBE I.D	D	M	W.G	Price
24-5/32	5/32	.062	.50		
24-4-4	1/4	.290	.63		
24-6-6	3/8	.390	.63		
24-8-8	1/2	.577	.81		

Union Elbow

PART#	TUBE I.D	D	M	W.G	Price
25-5/32	5/32	.062	.50		
25-4-4	1/4	.290	.63		
25-6-6	3/8	.390	.63		
25-8-8	1/2	.577	.81		



PUSH-ON

PUSH-ON FITTINGS

Braided Hose
Use with Hose Clamp
Reusable



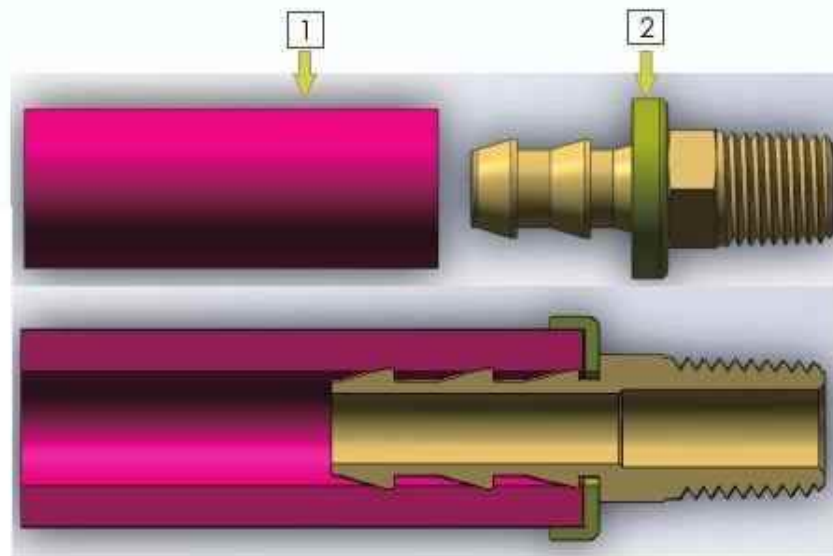
Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives: 2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury, lead, cadmium,
hexavalent chromium, PBB and PBDE)



PUSH ON



1 Tube

2 Yellow Lok-on Cap

Advantages

Push-on hose fittings are machined from the highest quality brass or stainless steel, ensuring a tight connection. The barbs are specifically engineered to work in conjunction with I.D and braid angle of Push-on Hose.

Typical Application:

Low pressure Air, Fuel, Lube, and Oil Lines

Pressure:

150Psi

Vibration:

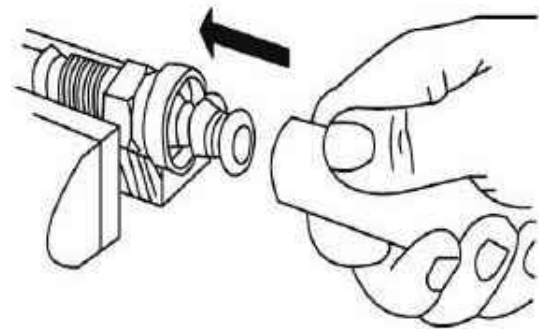
Excellent resistance

Temperature Range:

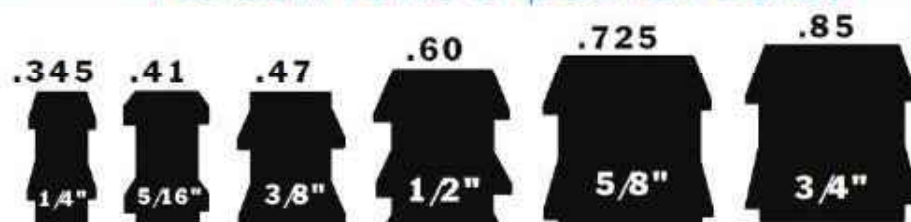
-40° F to 180° F. (-40° C to 82° C)

Material:

CA 360 Brass for Barstock fittings..CA377 Brass for forged fittings



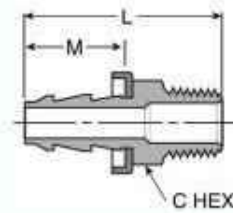
Actual Profile of push on Barbs



PUSH ON

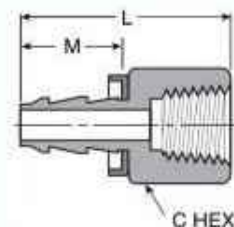
PART#	I.D×NPTF	C	M	L	W.G	Price
272-4A	1/4×1/8	7/16	.82	1.42		
272-4B	1/4×1/4	9/16	.82	1.66		
272-4C	1/4×3/8	11/16	.82	1.66		
272-5A	5/16×1/8	7/16	.77	1.43		
272-5B	5/16×1/4	9/16	.87	1.66		
272-6A	3/8×1/8	7/16	.97	1.56		
272-6B	3/8×1/4	9/16	.97	1.76		
272-6C	3/8×3/8	11/16	.97	1.76		
272-6D	3/8×1/2	7/8	.97	1.97		
272-8B	1/2×1/4	9/16	.97	1.76		
272-8C	1/2×3/8	11/16	.97	1.76		
272-8D	1/2×1/2	7/8	.97	1.97		
272-8E	1/2×3/4	1-1/16	.97	2.41		
272-10C	5/8×3/8	11/16	1.50	2.34		
272-10D	5/8×1/2	7/8	1.50	2.45		
272-12D	3/4×1/2	7/8	1.50	2.47		
272-12E	3/4×3/4	1-1/16	1.50	2.45		

Push-on Hose Barb to Male Pipe



PART#	I.D×NPTF	C	M	L	W.G	Price
274-4A	1/4×1/8	1/2	.82	1.35		
274-4B	1/4×1/4	5/8	.82	1.51		
274-4C	1/4×3/8	3/4	.82	1.51		
274-5A	5/16×1/8	1/2	.82	1.32		
274-5B	5/16×1/4	5/8	.87	1.51		
274-6A	3/8×1/8	7/16	.92	1.47		
274-6B	3/8×1/4	5/8	.97	1.61		
274-6C	3/8×3/8	3/4	.97	1.63		
274-6D	3/8×1/2	15/16	.97	1.66		
274-8B	1/2×1/4	9/16	.97	1.76		
274-8C	1/2×3/8	3/4	.97	1.63		
274-8D	1/2×1/2	15/16	.97	1.76		
274-8E	1/2×3/4	1-3/16	1.02	2.07		
274-10C	5/8×3/8	3/4	1.50	2.24		
274-10D	5/8×1/2	15/16	1.50	2.24		
274-12D	3/4×1/2	15/16	1.50	2.24		
274-12E	3/4×3/4	1-3/16	1.50	2.55		

Hose Barb to Female Pipe



PUSH ON

PART#	I.D×NPSM	C	M	L	W.G	Price
280-4B	1/4×1/4	11/16	.75	1.55		
280-6B	3/8×1/4	11/16	.90	1.70		
280-6C	3/8×3/8	7/8	.90	1.75		
280-8D	1/2×1/2	1"	1.05	2.07		
280-10D	5/8×1/2	1"	1.45	2.47		
280-12E	3/4×3/4	1"-1/4	1.45	2.54		

Female Pipe (NPSM)



PART#	I.D×FLARE	C	M	L	W.G	Price
282-4-4	1/4×7/16-20	7/16	.82	1.45		
282-4-5	1/4×1/2-20	1/2	.82	1.59		
282-5-4	5/16×1/2-20	1/2	.87	1.60		
282-5-5	5/16×1/2-20	1/2	.87	1.60		
282-6-4	3/8×7/16-20	1/2	.87	1.64		
282-6-6	3/8×5/8-18	5/8	.96	1.83		
282-8-8	1/2×3/4-16	3/4	1.02	2.04		
282-10-10	5/8×7/8-14	7/8	1.50	2.73		
282-12-12	3/4×1"-1/16-14	1"-1/16	1.50	2.79		

Hose Barb to Male SAE 45°



PART#	I.D×FLARE	C	M	L	W.G	Price
284-4-4	1/4×1/4	7/16	.82	1.45		
284-4-5	1/4×5/16	5/8	.82	1.59		
284-4-6	1/4×3/8	3/4	.82	1.60		
284-5-5	5/16×5/16	5/8	.87	1.60		
284-5-6	5/16×3/8	3/4	.87	1.60		
284-6-6	3/8×3/8	3/4	.97	1.75		
284-6-8	3/8×1/2	7/8	.97	1.85		
284-8-6	1/2×3/8	3/4	.97	1.85		
284-8-8	1/2×1/2	7/8	.97	1.77		
284-10-10	5/8×5/8	1"	1.50	2.35		
284-12-12	3/4×3/4	1"-1/4	1.50	2.42		

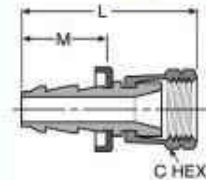
Female SAE 45° Swivel



PUSH ON

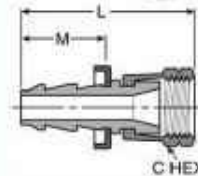
PART#	I.D×FLARE	C	M	L	W.G	Price
288-4-4	1/4×7/16-20	7/16	.82	1.45		
288-4-6	1/4×9/16-18	9/16	.82	1.60		
288-5-6	5/16×9/16-18	3/4	.87	1.60		
288-6-6	3/8×9/16-18	3/4	.97	1.75		
288-8-8	1/2×3/4-16	7/8	.97	1.77		
288-10-10	5/8×7/8-14	1"	1.50	2.35		
288-12-12	3/4×1"1/16-14	1"-1/4	1.50	2.40		

Female JIC 37° Swivel



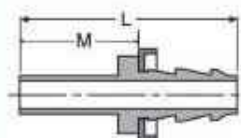
PART#	I.D×FLARE	C	M	L	W.G	Price
287-4-4	1/4×7/16-20	7/16	.82	1.45		
287-4-5	1/4×1/2-20	5/8	.82	1.59		
287-5-6	3/8×1/2-20	5/8	.92	1.75		
287-6-8	3/8×3/4-16	7/8	.92	1.82		
287-8-8	1/2×3/4-16	7/8	.97	1.78		
287-8-10	1/2×7/8-14	7/8	1.02	1.97		
287-10-10	5/8×7/8-14	1"	1.50	2.47		

SAE/JIC 45° /37°
Female Swivel



PART#	I.D×O.D	M	L	W.G	Price
294-4-3	1/4×3/16	.86	1.68		
294-4-4	1/4×1/4	1.06	1.88		
294-4-5	1/4×5/16	1.06	1.88		
294-5-5	5/16×5/16	1.06	1.91		
294-6-6	3/8×3/8	1.06	2.03		
294-8-8	1/2×1/2	1.06	2.13		
294-10-10	5/8×5/8	1.06	2.61		
294-12-12	3/4×3/4	1.06	2.61		

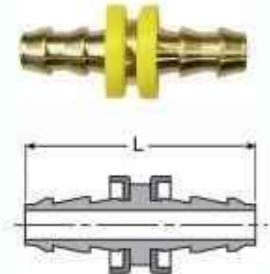
Rigid Tube Adapter



PUSH ON

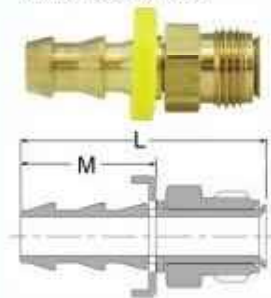
PART#	HOSE I.D.	L	W.G	Price
296-4	1/4	1.87		
296-5	5/16	1.80		
296-6	3/8	2.00		
296-8	1/2	2.01		
296-10	5/8	3.03		
296-12	3/4	3.03		
296-16	1"	3.21		

Push-on Union



PART#	HOSE I.D.	Thread	L	M	W.G	Price
290-4-3	1/4	3/8-24	1.52	.77		
290-4-4	1/4	7/16-24	1.52	.77		
290-4-5	1/4	1/2-20	1.58	.77		
290-5-5	5/16	1/2-20	1.58	.77		
290-5-6	5/16	5/8-18	1.63	.77		
290-6-5	3/8	1/2-20	1.73	.92		
290-6-6	3/8	5/8-18	1.78	.92		
290-8-8	1/2	3/4-18	1.96	1.02		
290-10-10	5/8	7/8-18	2.50	1.50		

Inverted Flare Male Swivel



PART#	I.D×NPTF	M	L	W.G	Price
273-4A	1/4×1/8	.75	.98		
273-4B	1/4×1/4	.82	1.04		
273-5A	5/16×1/8	.85	1.02		
273-5B	5/16×1/4	.94	1.09		
273-6A	3/8×1/8	.75	1.11		
273-6B	3/8×1/4	.90	1.13		
273-6C	3/8×3/8	.92	1.21		
273-6D	3/8×1/2	1.19	1.30		
273-8C	1/2×3/8	1.02	1.54		
273-8D	1/2×1/2	1.02	1.50		
273-10D	5/8×1/2	1.19	1.98		
273-10E	5/8×3/4	1.28	2.07		
273-12E	3/4×3/4	1.28	2.15		

Male Elbow





COMPRESSION

Compression

Copper
Brass
Aluminum
Thermoplastic tubing



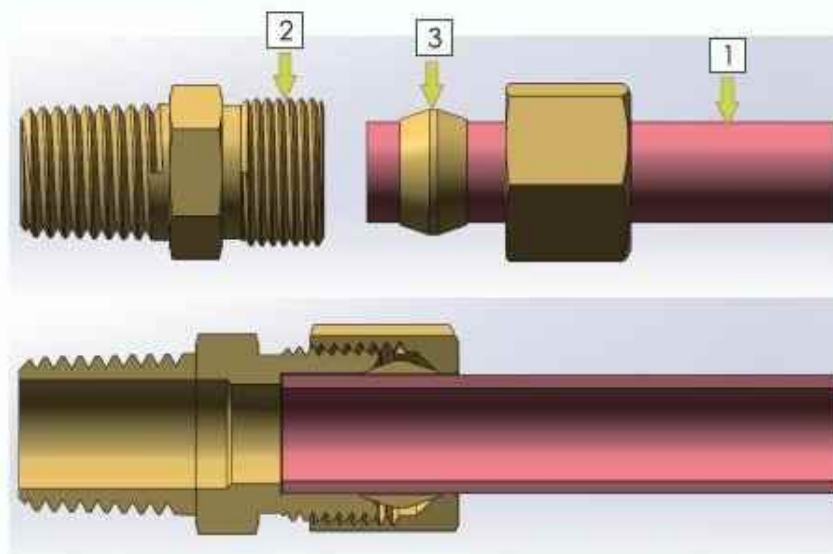
Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



COMPRESSION



1 Tube

2 Thread size-B

3 sleeve

TUBE O.D.	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Thread size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	11/16-20	13/16-18	1"-18

Typical Application:

Instrumentation, hydraulic and pneumatic systems.

Pressure:

Working pressure up to 2000 psi with a 4:1 safety factor depending on TUBE size.

When using plastic tubing, use the working pressure for type used.

Vibration:

Fair resistance - use long nut when greater vibration resistance is needed.

Temperature Range:

65° F to +250° F (-53° C to +121° C) with metal tubing. When using compatible plastic tubing do not exceed the tubing temperature range. (Refer to tubing temperature range.)

Material:

CA 360 Brass for Barstock fittings, CA377 Brass for forged fittings

Used With:

Aluminum, copper and plastic tubing

Actual Profile of Compression Threads

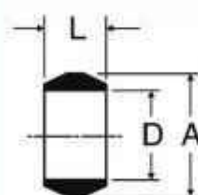
5/16"-24	3/8"-24	7/16"-24	1/2"-24	9/16"-24	11/16"-20	13/16"-18	1"-18	1-1/8"-18 75 PSI
1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"

COMPRESSION

PART #	TUBE SIZE	A	D	L	W.G	Price
60-2	1/8	.187	.130	.19		
60-3	3/16	.266	.192	.22		
60-4	1/4	.344	.255	.25		
60-5	5/16	.406	.318	.25		
60-6	3/8	.469	.382	.25		
60-7	7/16	.531	.444	.31		
60-8	1/2	.594	.507	.38		
60-10	5/8	.719	.632	.38		
60-12	3/4	.875	.758	.44		

Sleeve

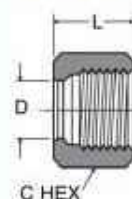
(Ref.SAENo.060115)



PART#	TUBE SIZE	C	D	L	W.G	Price
61-2	1/8	3/8	.130	.38		
61-3	3/16	7/16	.192	.41		
61-4	1/4	1/2	.255	.44		
61-5	5/16	9/16	.318	.44		
61-6	3/8	5/8	.382	.47		
61-7	7/16	11/16	.444	.50		
61-8	1/2	13/16	.507	.62		
61-10	5/8	15/16	.632	.62		
61-12	3/4	1-3/16	.758	.69		

Nut

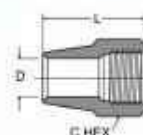
(Ref.SAENo.060110)



PART#	TUBE SIZE	C	D	L	W.G	Price
1611-3	3/16	7/16	.192	.62		
1611-4	1/4	1/2	.255	.75		
1611-5	5/16	9/16	.318	.84		
1611-6	3/8	5/8	.382	.88		
1611-8	1/2	13/16	.507	1.06		
1611-10	5/8	15/16	.632	1.08		
1611-12	3/4	1-3/16	.758	1.38		

Long Nut

(Ref.SAENo.060111)



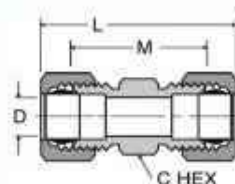
COMPRESSION

PART#	TUBE SIZE	C	M	D	W.G	Price
62-2	1/8	5/16	.64	.94		
62-3	3/16	3/8	.72	.125		
62-4	1/4	7/16	.79	.188		
62-5	5/16	1/2	.85	.250		
62-6	3/8	9/16	.97	.312		
62-7	7/16	5/8	1.02	.312		
62-8	1/2	11/16	1.08	.406		
62-10	5/8	13/16	1.23	.500		
62-12	3/4	1"	1.41	.562		
62-4-3	1/4x3/16	7/16	.78	.125		
62-5-4	5/16x1/4	1/2	.81	.188		
62-6-4	3/8x1/4	9/16	.90	.125		
62-6-5	3/8x5/16	9/16	.94	.188		
62-8-6	1/2x3/8	11/16	1.03	.312		
62-10-6	5/8x3/8	13/16	1.03	.312		
62-10-8	5/8x1/2	13/16	1.10	.406		

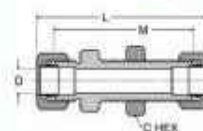
PART#	TUBE SIZE	C	M	D	W.G	Price
74-4	1/4	7/16	1.75	.188		
74-6	3/8	11/16	1.88	.312		

PART#	TUBE SIZE	M	D	W.G	Price
65-3	3/16	.61	.125		
65-4	1/4	.66	.188		
65-5	5/16	.69	.250		
65-6	3/8	.72	.312		
65-8	1/2	.94	.406		
65-10	5/8	1.06	.500		
65-12	3/4	1.19	.562		
65-6-4	3/8x1/4	.75/.69	.125		
65-8-6	1/2x3/8	.94/.88	.312		

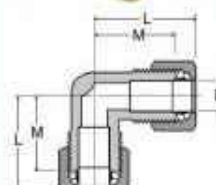
Union
(Ref.SAE No.060101 BA)



Bulkhead Union



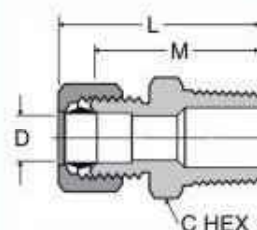
Union Elbow
(Ref.SAE No.060201 BA)



COMPRESSION

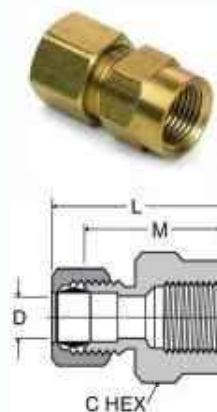
PART#	TUBE×NPTF	C	M	D	W.G	Price
68-2A	1/8×1/8	3/8	.78	.940		
68-3A	3/16×1/8	7/16	.84	.125		
68-3B	3/16×1/4	9/16	.94	.125		
68-4A	1/4×1/8	7/16	.88	.188		
68-4B	1/4×1/4	9/16	.97	.188		
68-4C	1/4×3/8	11/16	1.03	.188		
68-4D	1/4×1/2	7/8	1.09	.188		
68-5A	5/16×1/8	1/2	.89	.234		
68-5B	5/16×1/4	9/16	1.09	.250		
68L-5B	5/16×1/4	9/16	1.01	.250		
68-5C	5/16×3/8	11/16	1.06	.250		
68-6A	3/8×1/8	9/16	.94	.312		
68-6B	3/8×1/4	9/16	1.14	.312		
68L-6B	3/8×1/4	9/16	1.03	.312		
68-6C	3/8×3/8	11/16	1.14	.312		
68L-6C	3/8×3/8	11/16	1.09	.312		
68L-6D	3/8×1/2	7/8	1.19	.312		
68-8B	1/2×1/4	11/16	1.22	.312		
68L-8B	1/2×1/4	11/16	1.09	.312		
68-8C	1/2×3/8	11/16	1.16	.406		
68-8D	1/2×1/2	7/8	1.40	.406		
68L-8D	1/2×1/2	7/8	1.23	.406		
68-8E	1/2×3/4	1-1/16	1.38	.656		
68-10B	5/8×1/4	13/16	1.22	.406		
68-10C	5/8×3/8	13/16	1.22	.406		
68-10D	5/8×1/2	7/8	1.28	.500		
68-12D	3/4×1/2	1"	1.44	.562		
68-12E	3/4×3/4	1-1/16	1.50	.656		

Male Connector
(Ref.SAE No.060102BA)



PART#	TUBE×NPTF	C	M	D	W.G	Price
66-2A	1/8×1/8	9/16	.75	.940		
66-3A	3/16×1/8	9/16	.78	.125		
66-4A	1/4×1/8	11/16	.78	.188		
66L-4B	1/4×1/4	11/16	.88	.188		
66-4C	1/4×3/8	13/16	1.00	.312		
66-5A	5/16×1/8	9/16	.88	.234		
66L-5B	5/16×1/4	11/16	.91	.250		
66-6A	3/8×1/8	9/16	.84	.312		
66-6B	3/8×1/4	11/16	.94	.312		
66-6C	3/8×3/8	13/16	1.00	.312		
66-6D	3/8×1/2	1"	1.03	.312		
66-8B	1/2×1/4	11/16	1.09	.312		
66-8C	1/2×3/8	13/16	1.06	.406		
66-8D	1/2×1/2	1"	1.31	.406		
66L-8D	1/2×1/2	1"	1.05	.406		
66-8E	1/2×3/4	1-3/16	1.25	.656		
66-10C	5/8×3/8	13/16	1.03	.406		
66-10D	5/8×1/2	1"	1.38	.500		
66L-10D	5/8×1/2	1"	1.20	.500		
66-12D	3/4×1/2	1-1/8	1.25	.562		
66-12E	3/4×3/4	1-1/16	1.28	.656		

Female Connector
(Ref.SAE.No 060103BA)



PART#	TUBE×NPTF	N	M	D	W.G	Price
70-3A	3/16×1/8	.470	.69	.125		
70-4A	1/4×1/8	.470	.69	.188		
70-4B	1/4×1/4	.562	.75	.188		
70-5A	5/16×1/8	.600	.78	.234		
70-5B	5/16×1/4	.562	.78	.250		
70-6B	3/8×1/4	.580	.81	.312		
70-6C	3/8×3/8	.580	.88	.312		
70-8B	1/2×1/4	.700	1.00	.312		
70-8C	1/2×3/8	.700	1.00	.406		
70-8D	1/2×1/2	.880	1.00	.406		

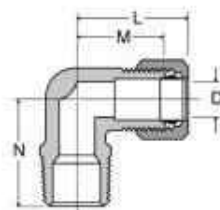
90° Female Elbow
(Ref.SAENO.060203BA)



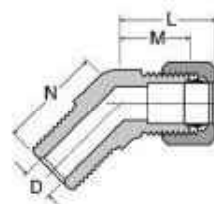
COMPRESSION

PART#	TUBE×NPTF	N	M	D	W.G	Price
69-2A	1/8×1/8	.75	.59	.940		
69-3A	3/16×1/8	.72	.63	.125		
69-3B	3/16×1/4	.85	.63	.189		
69-4A	1/4×1/8	.75	.62	.189		
69-4B	1/4×1/4	.91	.61	.189		
69-4C	1/4×3/8	.91	.70	.189		
69-4D	1/4×1/2	1.13	.81	.189		
69-5A	5/16×1/8	.74	.66	.234		
69-5B	5/16×1/4	.82	.67	.250		
69-5C	5/16×3/8	.91	.75	.250		
69-5D	5/16×1/2	1.12	.84	.250		
69-6A	3/8×1/8	.72	.72	.312		
69-6B	3/8×1/4	.72	.75	.312		
69-6C	3/8×3/8	.94	.80	.312		
69-6D	3/8×1/2	1.17	.85	.312		
69-8B	1/2×1/4	.97	.88	.312		
69-8C	1/2×3/8	1.04	.94	.406		
69-8D	1/2×1/2	1.13	.94	.406		
69-8E	1/2×3/4	1.25	1.16	.656		
69-10C	5/8×3/8	1.25	1.06	.406		
69-10D	5/8×1/2	1.31	1.06	.500		
69-12D	3/4×1/2	1.31	1.19	.562		
69-12E	3/4×3/4	1.38	1.19	.656		

90° Male Elbow
(Ref.SAE No.060202BA)

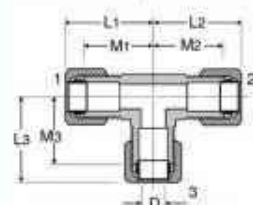
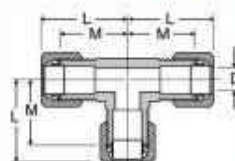


45° Male Elbow
(Ref.SAE No.060302BA)



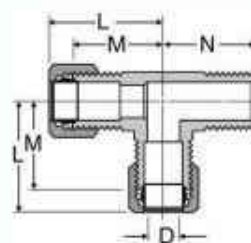
PART#	TUBE SIZE	M	M	D	W.G	Price
64-2	1/8		.53	.94		
64-3	3/16		.59	.125		
64-4	1/4		.627	.188		
64-5	5/16		.65	.250		
64-6	3/8		.73	.312		
64-8	1/2		.94	.406		
64-10	5/8		1.06	.500		
PART#	TUBE SIZE	M1	M2	M3		
64-4-4-6	1/4x1/4x3/8	.69	.69	.75		
64-4-6-4	1/4x3/8x1/4	.69	.75	.69		
64-6-6-4	3/8x3/8x1/4	.75	.75	.69		
64-8-8-6	1/2x1/2x3/8	.94	.94	.81		
64-10-10-8	5/8x5/8x1/2	1.06	1.06	1.06		

Union Tee
(Ref.SAE No.060401 BA)



PART#	O.DxNPTF	M	N	D	W.G	Price
71-3A	3/16x1/8	.63	.69	.125		
71-4A	1/4x1/8	.63	.70	.188		
71-4B	1/4x1/4	.69	.88	.188		
71-5A	5/16x1/8	.72	.75	.250		
71-5B	5/16x1/4	.75	.88	.250		
71-6A	3/8x1/8	.75	.75	.312		
71-6B	3/8x1/4	.78	.87	.312		
71-6C	3/8x3/8	.88	1.00	.330		
71-8C	1/2x3/8	.94	1.09	.406		
71-8D	1/2x1/2	.97	1.19	.406		
71-10D	5/8x1/2	1.06	1.31	.500		

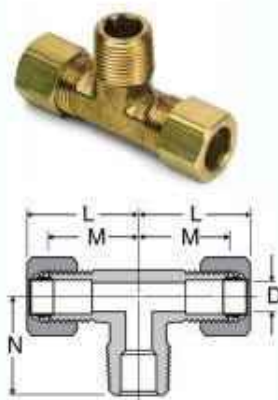
Male Run Tee
(Ref.SAE No.060424 BA)



COMPRESSION

PART#	O.D×NPTF	M	N	D	W.G	Price
72-3A	3/16×1/8	.63	.69	.125		
72-4A	1/4×1/8	.63	.70	.188		
72-4B	1/4×1/4	.68	.86	.188		
72-5A	5/16×1/8	.72	.75	.250		
72-5B	5/16×1/4	.75	.88	.250		
72-6A	3/8×1/8	.75	.75	.312		
72-6B	3/8×1/4	.78	.88	.312		
72-6C	3/8×3/8	.88	1.00	.330		
72-8C	1/2×3/8	.94	1.09	.406		
72-8D	1/2×1/2	.97	1.19	.406		
72-10D	5/8×1/2	1.06	1.31	.500		

Male Branch Tee
(Ref.SAE No.060425 BA)



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PART#	O.D	L	W.G	Price
2030-2	1/8	.42		
2030-3	3/16	.45		
2030-4	1/4	.50		
2030-5	5/16	.52		
2030-6	3/8	.56		
2030-8	1/2	.70		
2030-10	5/8	.72		
2030-12	3/4	1.02		

BRASS INSERT





D.O.T PUSH IN

D.O.T PUSH-IN
Meets D.O.T.FMVSS 57.106
Meets SAE J246 & J1131
Staked in Tube Support



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



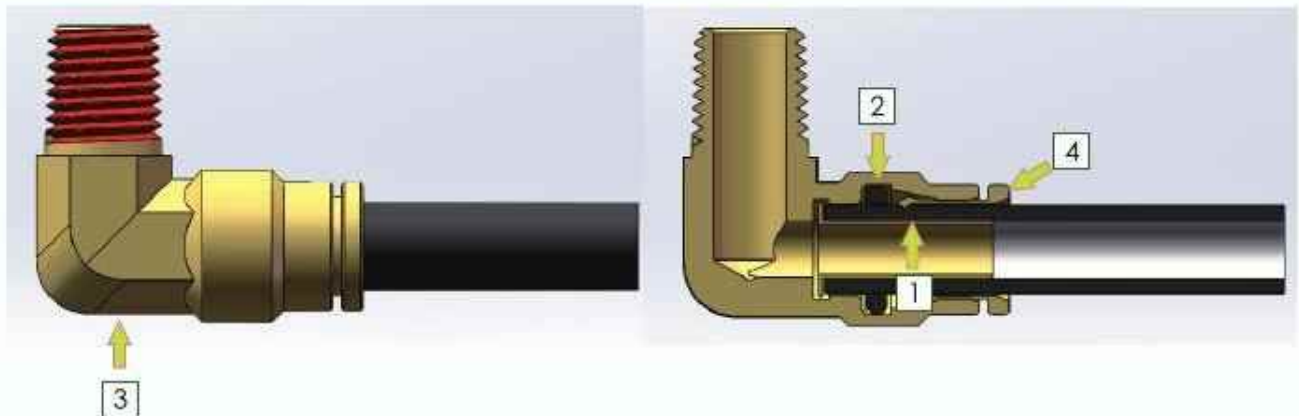
D.O.T.FMVSS 57.106
Fittings comply with the performance requirements



50



D.O.T PUSH IN



- 1 Tube support/Insert 2 'O' -ring 3 Body 4 Pipe claw

Typical Application:

Air systems.

Pressure:

Working pressure from vacuum to 250 psi

Vibration:

Fair resistance.

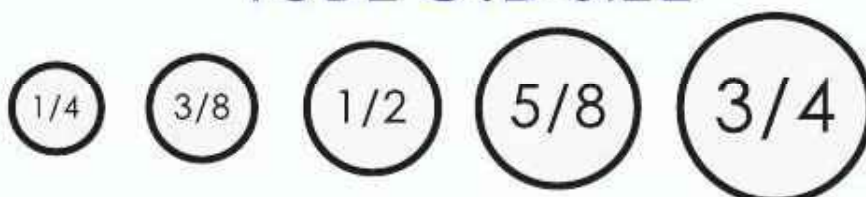
Temperature Range:

Working temperature from -40° F to +200° F (Note: see tubing manufacturer's recommendations for pressure and temperature limitations)

Material:

CA 360 Brass for Barstock fittings. CA377 Brass for forged fittings

TUBE O.D SIZE



D.O.T PUSH IN

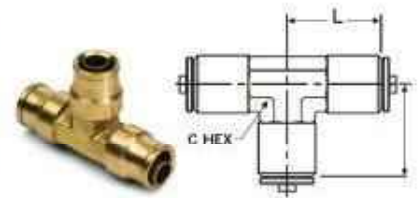
PART#	TUBE SIZE	C	L	W.G	Price
1562-DOT-4	1/4	.44	1.82	25	
1562-DOT-6	3/8	.66	1.82	30	
1562-DOT-8	1/2	.78	2.02	47	
1562-DOT-10	5/8	.91	2.04	87	
1562-DOT-12	3/4	1.06	2.20	135	

Union



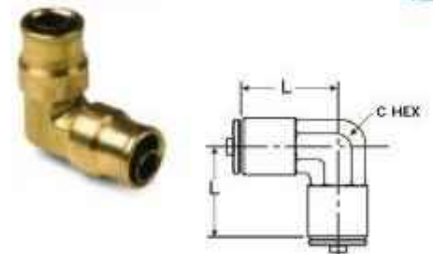
PART#	TUBE SIZE	C	L	W.G	Price
1564-DOT-4	1/4	3/8	.92		
1564-DOT-6	3/8	1/2	.96		
1564-DOT-8	1/2	5/8	1.16		
1564-DOT-10	5/8	11/16	1.19		
1564-DOT-12	3/4	15/16	1.40		

Union Tee



PART#	TUBE SIZE	C	L	W.G	Price
1565-DOT-4	1/4	3/8	.92		
1565-DOT-6	3/8	1/2	.96		
1565-DOT-8	1/2	5/8	1.16		
1565-DOT-10	5/8	11/16	1.19		
1565-DOT-12	3/4	15/16	1.40		

Union Elbow



PART#	O.DxNPTF	C	L	W.G	Price
1566-DOT-4A	1/4x1/8	9/16	1.23		
1566-DOT-4B	1/4x1/4	3/4	1.42		
1566-DOT-6B	3/8x1/4	3/4	1.30		
1566-DOT-6C	3/8x3/8	7/8	1.41		
1566-DOT-8C	1/2x3/8	7/8	1.51		
1566-DOT-8D	1/2x1/2	1-1/8	1.73		

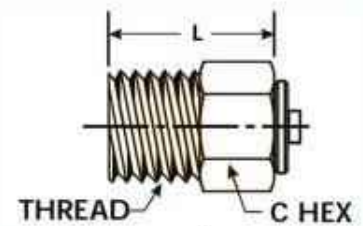
Female Connector



D.O.T PUSH IN

PART#	TUBE×NPTF	C	L	W.G	Price
1568-DOT-4-1	1/4×1/16	7/16	.92		
1568-DOT-4A	1/4×1/8	7/16	.92		
1568-DOT-4B	1/4×1/4	9/16	.96		
1568-DOT-4C	1/4×3/8	11/16	1.02		
1568-DOT-6A	3/8×1/8	11/16	1.18		
1568-DOT-6B	3/8×1/4	11/16	1.11		
1568-DOT-6C	3/8×3/8	11/16	1.02		
1568-DOT-6D	3/8×1/2	7/8	1.02		
1568-DOT-8B	1/2×1/4	13/16	1.36		
1568-DOT-8C	1/2×3/8	13/16	1.18		
1568-DOT-8D	1/2×1/2	7/8	1.02		
1568-DOT-10C	5/8×3/8	15/16	1.34		
1568-DOT-10D	5/8×1/2	15/16	1.58		
1568-DOT-12D	3/4×1/2	1-1/16	1.65		
1568-DOT-12E	3/4×3/4	1-1/16	1.37		

Male Connector



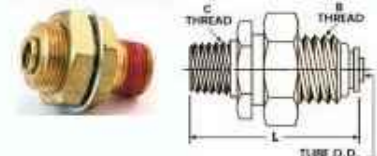
PART#	TUBE SIZE	C	E	L	W.G	Price
1582-DOT-4	1/4	11/16	1/2-20	1.69		
1582-DOT-6	3/8	15/16	5/8-18	1.70		
1582-DOT-8	1/2	15/16	3/4-16	1.88		
1582-DOT-10	5/8	1-1/8	15/16-16	1.88		

Bulkhead Union



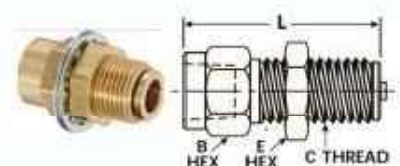
PART#	TUBE×NPTF	C	B	E	L	W.G	Price
1583-DOT-6D	3/8×1/2	1-3/8	1"-14	1-1/4	1.99		
1583-DOT-8D	1/2×1/2	1-3/8	1"-14	1-1/4	1.99		

Gladhand Bulkhead Connector



PART#	TUBE×NPTF	C	B	E	L	W.G	Price
1586-DOT-4A	1/4×1/8	1/2-20	11/16	11/16	1.30		
1586-DOT-4B	1/4×1/4	1/2-20	3/4	11/16	1.56		
1586-DOT-6B	3/8×1/4	5/8-18	3/4	13/16	1.87		
1586-DOT-6C	3/8×3/8	5/8-18	7/8	13/16	1.93		

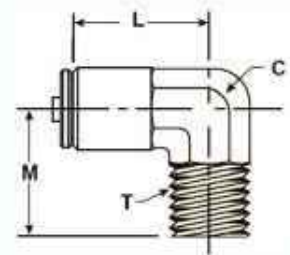
Gladhand Bulkhead Connector



D.O.T PUSH IN

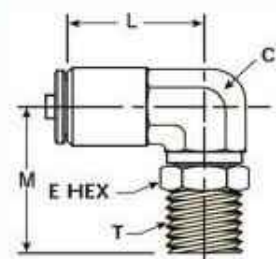
PART#	TUBE×NPTF	C	M	L	W.G	Price
1569-DOT-4A	1/4×1/8	3/8	.75	.91		
1569-DOT-4B	1/4×1/4	3/8	.96	.94		
1569-DOT-4C	1/4×3/8	1/2	.98	1.00		
1569-DOT-6A	3/8×1/8	1/2	.80	.98		
1569-DOT-6B	3/8×1/4	1/2	.94	.98		
1569-DOT-6C	3/8×3/8	1/2	.98	.98		
1569-DOT-6D	3/8×1/2	5/8	1.19	1.04		
1569-DOT-8B	1/2×1/4	5/8	1.05	1.15		
1569-DOT-8C	1/2×3/8	5/8	1.05	1.15		
1569-DOT-8D	1/2×1/2	5/8	1.20	1.16		
1569-DOT-10C	5/8×3/8	3/4	1.13	1.16		
1569-DOT-10D	5/8×1/2	11/16	1.28	1.18		
1569-DOT-12D	3/4×1/2	15/16	1.36	1.32		
1569-DOT-12E	3/4×3/4	15/16	1.36	1.32		

90° Male Elbow



PART#	O.D×NPTF	C	M	L	E	W.G	Price
1569S-DOT-4A	1/4×1/8	3/8	.75	.91	7/16		
1569S-DOT-4B	1/4×1/4	3/8	.96	.94	9/16		
1569S-DOT-4C	1/4×3/8	1/2	.98	1.00	11/16		
1569S-DOT-6A	3/8×1/8	1/2	.80	.98	7/16		
1569S-DOT-6B	3/8×1/4	1/2	.94	.98	9/16		
1569S-DOT-6C	3/8×3/8	1/2	.98	.98	11/16		
1569S-DOT-6D	3/8×1/2	5/8	1.19	1.04	7/8		
1569S-DOT-8B	1/2×1/4	5/8	1.05	1.15	9/16		
1569S-DOT-8C	1/2×3/8	5/8	1.05	1.15	11/16		
1569S-DOT-8D	1/2×1/2	5/8	1.20	1.16	7/8		
1569S-DOT-10C	5/8×3/8	3/4	1.13	1.16	11/16		
1569S-DOT-10D	5/8×1/2	11/16	1.28	1.18	7/8		
1569S-DOT-12D	3/4×1/2	15/16	1.36	1.32	1-1/16		
1569S-DOT-12E	3/4×3/4	15/16	1.36	1.32	1-1/16		

Swivel 90° Male Elbow



D.O.T PUSH IN

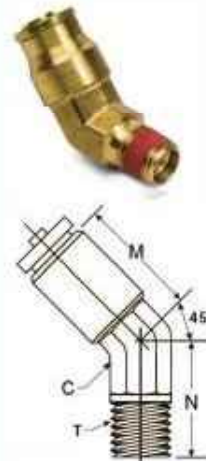
PART#	TUBE SIZE	C	M	L	W.G	Price
1570-DOT-4A	1/4×1/8	3/8	.82	.92		
1570-DOT-4B	1/4×1/4	1/2	.94	.102		
1570-DOT-4C	1/4×3/8	5/8	.98	1.11		
1570-DOT-6B	3/8×1/4	1/2	.94	.96		
1570-DOT-6C	3/8×3/8	5/8	.91	.98		
1570-DOT-8D	1/2×1/2	5/8	1.21	1.14		

Female Elbow



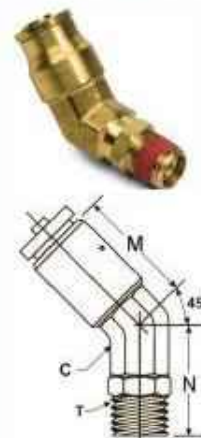
PART#	O.D×NPTF	C	M	N	W.G	Price
1554-DOT-4A	1/4×1/8	3/8	.89	.83		
1554-DOT-4B	1/4×1/4	3/8	.89	.91		
1554-DOT-6A	3/8×1/8	1/2	.98	.75		
1554-DOT-6B	3/8×1/4	1/2	.98	.95		
1554-DOT-6C	3/8×3/8	1/2	.98	.89		
1554-DOT-6D	3/8×1/2	5/8	1.04	1.10		
1554-DOT-8B	1/2×1/4	5/8	1.15	.98		
1554-DOT-8C	1/2×3/8	5/8	1.15	1.05		
1554-DOT-8D	1/2×1/2	5/8	1.16	1.10		
1554-DOT-10C	5/8×3/8	11/16	1.21	1.05		
1554-DOT-10D	5/8×1/2	11/16	1.21	1.12		

45° Male Elbow



PART#	O.D×NPTF	C	M	N	W.G	Price
1554S-DOT-4A	1/4×1/8	3/8	.89	.83		
1554S-DOT-4B	1/4×1/4	3/8	.89	1.10		
1554S-DOT-6A	3/8×1/8	1/2	.98	1.07		
1554S-DOT-6B	3/8×1/4	1/2	.98	1.07		
1554S-DOT-6C	3/8×3/8	1/2	.98	1.23		
1554S-DOT-8B	1/2×1/4	5/8	1.15	1.22		
1554S-DOT-8C	1/2×3/8	5/8	1.15	1.32		
1554S-DOT-8D	1/2×1/2	5/8	1.16	1.61		
1554S-DOT-10D	5/8×1/2	11/16	1.21	1.63		

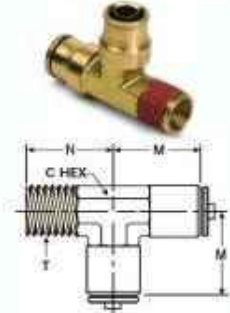
Swivel 45° Male Elbow



D.O.T PUSH IN

PART#	O.D×NPTF	C	M	N	W.G	Price
1571-DOT-4A	1/4×1/8	3/8	.89	.89		
1571-DOT-4B	1/4×1/4	3/8	.89	1.10		
1571-DOT-6B	3/8×1/4	1/2	.98	1.07		
1571-DOT-6C	3/8×3/8	1/2	.98	1.23		
1571-DOT-8C	1/2×3/8	5/8	1.15	1.32		

Male Run Tee



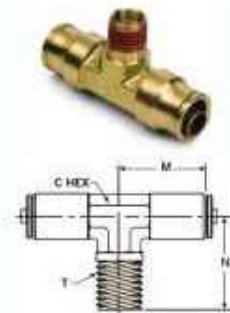
PART#	O.D×NPTF	C	E	M	N	W.G	Price
1571S-DOT-4A	1/4×1/8	3/8	7/16	.92	1.05		
1571S-DOT-4B	1/4×1/4	3/8	9/16	.92	1.24		
1571S-DOT-6B	3/8×1/4	1/2	9/16	.98	1.14		
1571S-DOT-6C	3/8×3/8	1/2	11/16	1.14	1.18		
1571S-DOT-8C	1/2×3/8	5/8	11/16	1.14	1.31		

Swivel Male Run Tee



PART#	O.D×NPTF	C	M	N	W.G	Price
1572-DOT-4A	1/4×1/8	3/8	.92	.74		
1572-DOT-4B	1/4×1/4	3/8	.92	.92		
1572-DOT-6B	3/8×1/4	1/2	.98	1.00		
1572-DOT-6C	3/8×3/8	1/2	.98	.98		
1572-DOT-8B	1/2×1/4	5/8	1.10	1.05		
1572-DOT-8C	1/2×3/8	5/8	1.14	1.05		

Male Branch Tee



PART#	O.D×NPTF	C	E	M	N	W.G	Price
1572S-DOT-4A	1/4×1/8	3/8	7/16	.92	1.04		
1572S-DOT-4B	1/4×1/4	3/8	9/16	.92	1.16		
1572S-DOT-6A	3/8×1/8	1/2	7/16	.98	1.06		
1572S-DOT-6B	3/8×1/4	1/2	9/16	.98	1.16		
1572S-DOT-6C	3/8×3/8	1/2	11/16	.98	1.21		
1572S-DOT-8B	1/2×1/4	5/8	9/16	1.14	1.26		
1572S-DOT-8C	1/2×3/8	5/8	11/16	1.14	1.31		
1572S-DOT-8D	1/2×1/2	5/8	7/8	1.14	1.31		

Swivel Male Branch Tee





METRIC DOT PUSH IN

D.O.T PUSH-IN
Meets ISO9001-2000
ISO/TS16949-2000



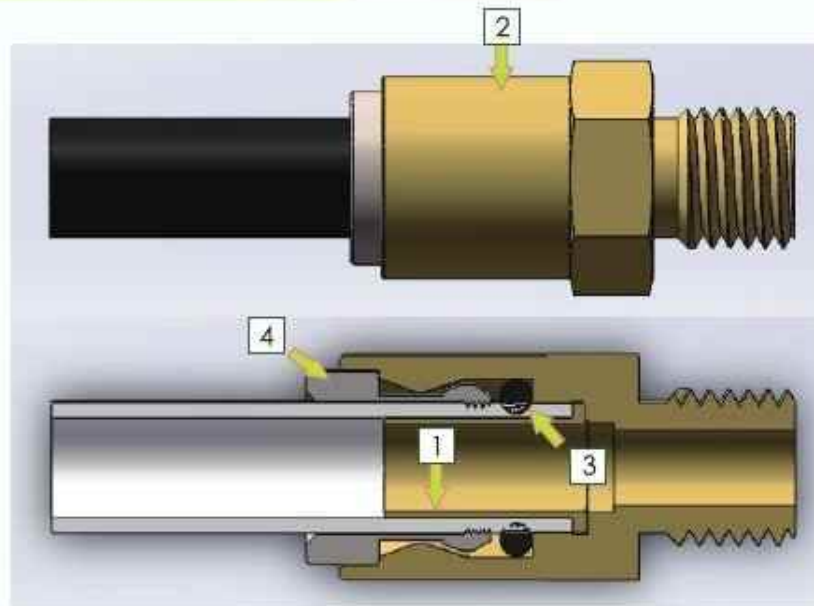
European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



DIN 74324 (metric tube and fittings)



METRIC DOT PUSH IN



- 1 Tube support/Insert
 2 'O' -ring
 3 Body
 4 Pipe clamp

Typical Application:

Air systems.

Pressure:

Working pressure Max 140 psi

Vibration:

Fair resistance.

Temperature Range:

Working temperature from -40° F to +200° F (Note: see tubing manufacturer's recommendations for pressure and temperature limitations)

Tubing:

Tube should be to DIN 74324

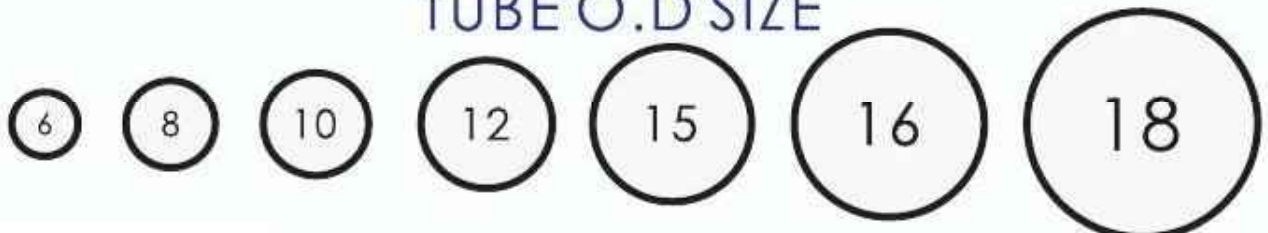
Material:

Body (straights), tube support, collet: brass BS 2874 CZ 121 or Hpb 59-1

Body (elbows, tees): brass BS 2874 CZ 122 or Hpb 58-2

85

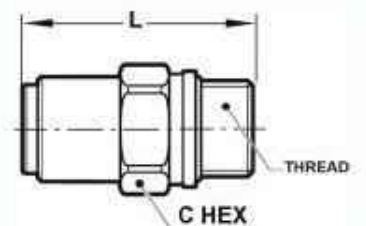
TUBE O.D SIZE



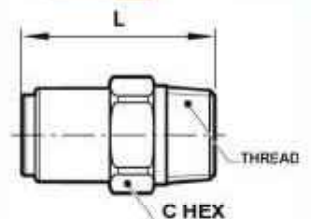
METRIC DOT PUSH IN

PART#	TUBE	THREAD	C	L	W.G	Price
1668-6M10*1	6mm	M10*1.5	\$14	28.5		
1668-6M12*1.5	6mm	M12*1.5	\$17	30.5		
1668-6M14*1.5	6mm	M14*1.5	\$19	31.5		
1668-6M16*1.5	6mm	M16*1.5	\$22	27.5		
1668-6M22*1.5	6mm	M22*1.5	\$27	30.5		
1668-8M10*1	8mm	M10*1	\$17	29.5		
1668-8M12*1.5	8mm	M12*1.5	\$17	31.5		
1668-8M14*1.5	8mm	M14*1.5	\$19	31.5		
1668-8M16*1.5	8mm	M16*1.5	\$22	31.5		
1668-8M22*1.5	8mm	M22*1.5	\$27	30.5		
1668-10M10*1	10mm	M10*1	\$17	33.0		
1668-10M12*1.5	10mm	M12*1.5	\$17	35.0		
1668-10M14*1.5	10mm	M14*1.5	\$19	35.0		
1668-10M16*1.5	10mm	M16*1.5	\$22	35.0		
1668-10M22*1.5	10mm	M22*1.5	\$27	31.0		
1668-12M12*1.5	12mm	M12*1.5	\$22	38.5		
1668-12M14*1.5	12mm	M14*1.5	\$22	38.5		
1668-12M16*1.5	12mm	M16*1.5	\$22	39.0		
1668-12M22*1.5	12mm	M22*1.5	\$27	35.0		
1668-15M22*1.5	15mm	M22*1.5	\$27	45.0		
1668-16M16*1.5	16mm	M16*1.5	\$27	42.5		
1668-16M22*1.5	16mm	M22*1.5	\$27	44.5		
1668-18M22*1.5	18mm	M22*1.5	\$30	44.5		

Male Connector



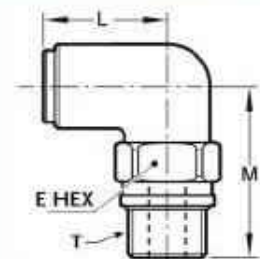
Male Connector



METRIC DOT PUSH IN

PART#	TUBE	THREAD	E	M	L	W.G	Price
1669-6M10*1	6mm	M10*1.0	S15	26.0	23.5		
1669-6M12*1.5	6mm	M12*1.5	S17	29.0	23.5		
1669-6M16*1.5	6mm	M16*1.5	S24	34.0	24.5		
1669-6M22*1.5	6mm	M22*1.5	S30	41.5	28.5		
1669-8M12*1.5	8mm	M12*1.5	S17	31.5	25.5		
1669-8M16*1.5	8mm	M16*1.5	S24	34.0	25.5		
1669-8M22*1.5	8mm	M22*1.5	S30	41.5	28.5		
1669-10M10*1	10mm	M10*1	S15	28.0	27.0		
1669-10M12*1.5	10mm	M12*1.5	S17	31.0	29.0		
1669-10M14*1.5	10mm	M14*1.5	S19	31.5	28.0		
1669-10M16*1.5	10mm	M16*1.5	S24	33.5	29.0		
1669-10M22*1.5	10mm	M22*1.5	S30	40.5	32.0		
1669-12M16*1.5	12mm	M16*1.5	S24	35.5	32.0		
1669-12M22*1.5	12mm	M22*1.5	S30	40.5	34.5		
1669-16M16*1.5	16mm	M16*1.5	S24	38.5	38.0		
1689-16M22*1.5	16mm	M22*1.5	S30	40.5	38.0		
1669-18M22*1.5	18mm	M22*1.5	S30	43.0	39.5		

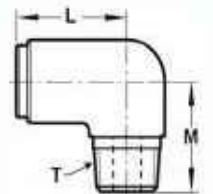
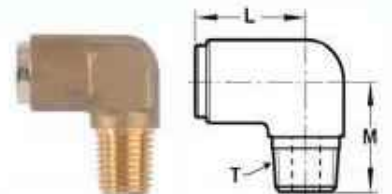
90° Male Elbow
metric thread



60

PART#	TUBE	THREAD	E	M	L	W.G	Price
1669-6M10*1	6mm	M10*1.0	S15	26.0	23.5		
1669-6M12*1.5	6mm	M12*1.5	S17	29.0	23.5		
1669-8M12*1.5	8mm	M12*1.5	S17	31.5	25.5		
1669-10M12*1.5	10mm	M12*1.5	S17	31.0	29.0		
1669-10M14*1.5	10mm	M14*1.5	S19	31.5	28.0		
1669-10M16*1.5	10mm	M16*1.5	S24	33.5	29.0		

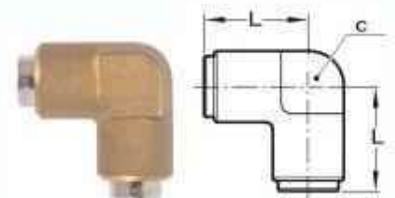
90° Male Elbow
BSP/BSPT thread



METRIC DOT PUSH IN

PART#	TUBE	C	L	W.G	Price
1665-060	6mm	10.0	21.0		
1665-080	8mm	11.0	23.0		
1665-010	10mm	14.0	27.0		
1665-012	12mm	16.0	32.0		
1665-015	15mm	27.0	38.5		
1665-016	16mm	27.0	39.0		

Elbow Union



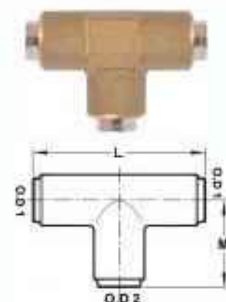
PART#	TUBE	L	M	W.G	Price
1664-060	6mm	42.0	21.0		
1664-080	8mm	45.5	23.0		
1664-010	10mm	54.0	27.0		
1664-012	12mm	64.0	32.0		
1664-015	15mm	77.0	38.5		
1664-016	16mm	78.0	39.0		

Tee Union



PART#	TUBE O.D 1	TUBE O.D 2	L	M	W.G	Price
1664-1006	10mm	6mm	54.0	23.5		
1664-1206	12mm	6mm	64.0	25.5		
1664-1208	12mm	8mm	64.0	27.5		

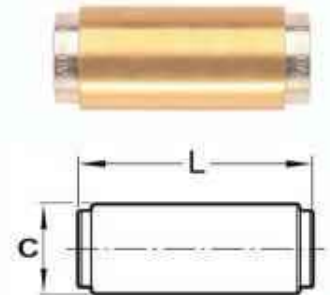
Reducing Tee connector



METRIC DOT PUSH IN

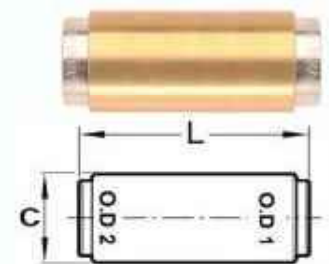
PART#	TUBE	C	L	W.G	Price
1662-060	6mm	13.0	37.0		
1662-080	8mm	15.0	37.6		
1662-010	10mm	17.0	44.5		
1662-011	11mm	19.0	46.2		
1662-012	12mm	20.5	51.5		
1662-014	14mm	22.0	50.2		
1662-015	15mm	27.0	62.0		
1662-016	16mm	27.0	62.0		

Union



PART#	TUBE O.D 1	TUBE O.D 2	C	L	W.G	Price
1662-0806	8mm	6mm	15.0	38.5		
1664-1006	10mm	6mm	17.0	43.5		

Reducing Union Connector



★ Depending on the truck model, we offer other custom accessories such as: 45° Male Elbow, Swivel 45° Male elbow, Female elbow, Male Run Tee, Swivel Male Run Tee, Male Branch Tee, Swivel Male branch Tee and Bulkhead Union.





D.O.T AIR BRAKE NYLON TUBING

D.O.T AIR BAREK NYLON TUBING

Meets D.O.T.FMVSS 571.106
Meets SAE J246 & J1131
Staked in Tube Support
Pre-applied Sealant



Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)

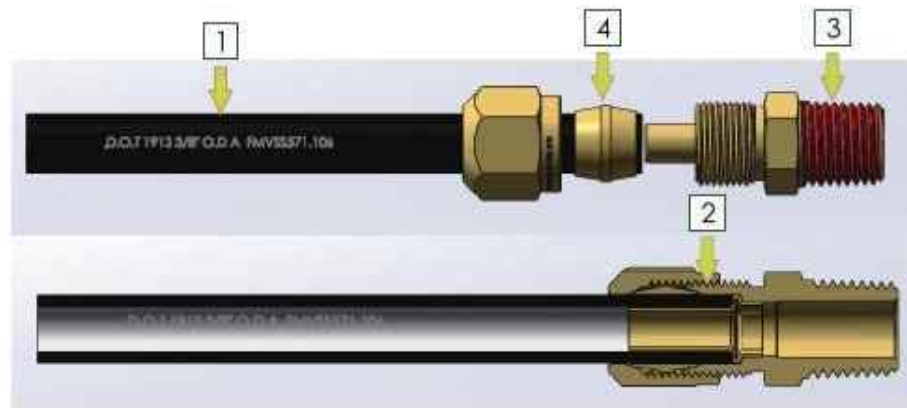


D.O.T.FMVSS 571.106

Fittings comply with the performance requirements



D.O.T AIR BRAKE NYLON TUBING



1 Nylon Tube 2 Thread size-B 3 Thread pre-coating glue 4 sleeve

TUBE O.D	1/4"	3/8"	1/2"	5/8"	3/4"
Thread size-B	7/16-24	17/32-24	11/16-20	13/16-18	1"-18

Typical Application:

Air brake systems except where temperatures exceed +200° F tubing,
or where battery acid can drip on

Pressure:

Maximum operating pressure of 150 psi.

Vibration:

Fair resistance.

Temperature Range:

-40° F to +200° F (-40° C to +93° C)

Material:

CA360 Brass.

Used With:

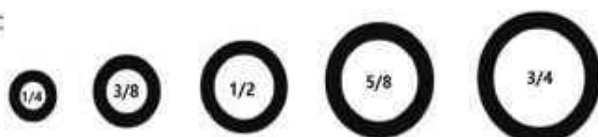
NT100 Nylon Tubing - SAE J844 Type A and B. See page 27 for NT100 ylon Tubing data.

Advantages:

Easy to assemble (no TUBE preparation or flaring required.) Built in TUBE support.

May be used with copper tubing by replacing nut, sleeve and insert with long nut
and spherical sleeve. Insert should be remc

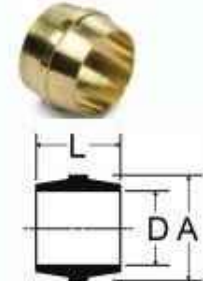
TUBING O.D SIZE



D.O.T AIR BRAKE NYLON TUBING

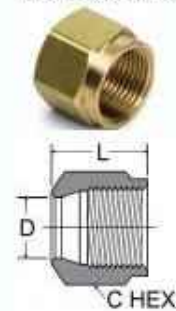
PART#	TUBE SIZE	A	D	L	W.G	Price
1460-4	1/4	.359	.256	.30		
1460-6	3/8	.479	.386	.39		
1460-8	1/2	.625	.509	.438		
1460-10	5/8	.745	.635	.48		
1460-12	3/4	.922	.760	.53		

Sleeve
(Ref.SAENo.100115 BA)



PART#	TUBE SIZE	C	D	L	W.G	Price
1461-4	1/4	9/16	.256	.45		
1461-6	3/8	5/8	.384	.63		
1461-8	1/2	13/16	.509	.72		
1461-10	5/8	15/16	.635	.77		
1461-12	3/4	1-1/8	.760	.81		

Nut
(Ref.SAENo.100110 BA)



PART#	TUBE SIZE	C	M	W.G	Price
1462-4	1/4	7/16	.85		
1462-6	3/8	9/16	1.10		
1462-8	1/2	11/16	1.31		
1462-10	5/8	13/16	1.43		
1462-12	3/4	1"	1.60		

Union
(Ref.SAENo.100101 BA)



PART#	TUBE SIZE	C	B	M	W.G	Price
1474-4	1/4	9/16	9/16	1.38		
1474-6	3/8	3/4	11/16	1.62		
1474-8	1/2	1"	13/16	1.88		
1474-10	5/8	1"	15/16	2.02		

Bulkhead Union



D.O.T AIR BRAKE NYLON TUBING

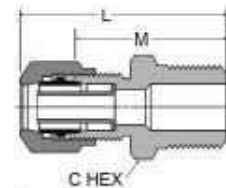
PART#	TUBE SIZE	M	W.G	Price
1465-4	1/4	.62		
1465-6	3/8	.70		
1465-8	1/2	.93		
1465-10	5/8	1.02		

Union Elbow
(Ref.SAENo.100201 BA)

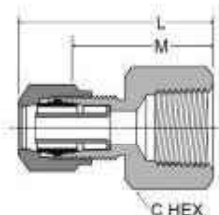


PART#	TUBE×NPTF	C	M	W.G	Price
1468-4A	1/4×1/8	7/16	.88		
1468-4B	1/4×1/4	9/16	1.09		
1468-4C	1/4×3/8	11/16	1.12		
1468-6A	3/8×1/8	9/16	1.02		
1468-6B	3/8×1/4	9/16	1.20		
1468-6C	3/8×3/8	11/16	1.23		
1468-6D	3/8×1/2	7/8	1.42		
1468-8B	1/2×1/4	11/16	1.32		
1468-8C	1/2×3/8	11/16	1.32		
1468-8D	1/2×1/2	7/8	1.51		
1468-10C	5/8×3/8	13/16	1.38		
1468-10D	5/8×1/2	7/8	1.57		
1468-10E	5/8×3/4	1-1/16	1.63		
1468-12D	3/4×1/2	1"	1.67		
1468-12E	1/2×3/4	1-1/16	1.70		

Male Connector
(Ref.SAENo.100102 BA)



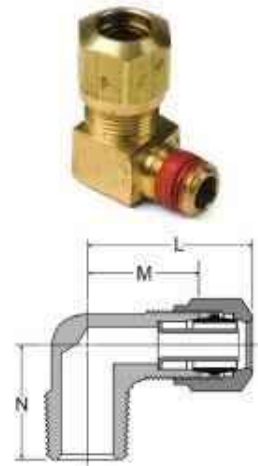
Female Connector
(Ref.SAENo.100103 BA)



D.O.T AIR BRAKE NYLON TUBING

PART#	TUBE×NPTF	M	N	W.G	Price
1469-4A	1/4×1/8	.61	.67		
1469-4B	1/4×1/4	.65	.81		
1469-4C	1/4×3/8	.72	.86		
1469-6A	3/8×1/8	.72	.73		
1469-6B	3/8×1/4	.80	.84		
1469-6C	3/8×3/8	.83	.91		
1469-6D	3/8×1/2	.94	1.09		
1469-8B	1/2×1/4	.85	.98		
1469-8C	1/2×3/8	.92	.98		
1469-8D	1/2×1/2	1.02	1.09		
1469-10C	5/8×3/8	1.00	1.02		
1469-10D	5/8×1/2	1.09	1.25		
1469-10E	5/8×3/4	1.09	1.25		
1469-12D	3/4×1/2	1.16	1.30		
1469-12E	3/4×3/4	1.26	1.32		

90° Male Elbow
(Ref.SAE No.100202 BA)



PART#	TUBE×NPTF	M	N	W.G	Price
1470-4A	1/4×1/8	.59	.64		
1470-4B	1/4×1/4	.68	.87		
1470-6A	3/8×1/8	.73	.75		
1470-6B	3/8×1/4	.73	.87		
1470-6C	3/8×3/8	.74	.87		
1470-8C	1/2×3/8	.92	.95		
1470-8D	1/2×1/2	1.03	1.18		

90° Female Elbow
(Ref.SAE No.100203 BA)



PART#	TUBE SIZE	M1×M2	M3	W.G	Price
1464-4	1/4	.62	.62		
1464-6-6-4	3/8×3/8×1/4	.72	.69		
1464-6	3/8	.78	.78		
1464-8-8-6	1/2×1/2×3/8	.92	.85		
1464-8	1/2	.92	.92		
1464-10	5/8	1.09	1.09		

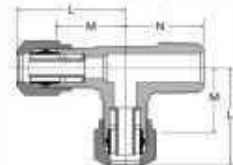
Union Tee
(Ref.SAE No.100301 BA)



D.O.T AIR BRAKE NYLON TUBING

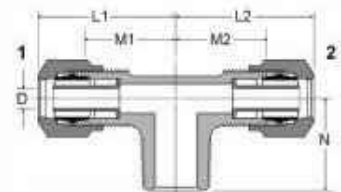
PART#	TUBE×NPTF	M	N	W.G	Price
1471-4A	1/4×1/8	.61	.66		
1471-4B	1/4×1/4	.68	.87		
1471-6×4B	3/8×1/4×1/4	.72×.68	.69		
1471-6B	3/8×1/4	.78	.90		
1471-6C	3/8×3/8	.81	.90		
1471-8C	1/2×3/8	.92	.96		
1471-8D	1/2×1/2	.92	1.07		
1471-10D	5/8×1/2	1.04	1.19		

Male Run Tee
(Ref.SAE.No 100424 BA)



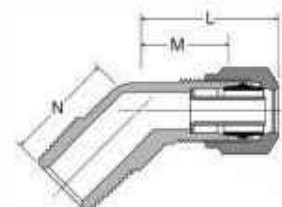
PART#	TUBE×NPTF	M	N	W.G	Price
1472-4A	1/4×1/8	.61	.62		
1472-4B	1/4×1/4	.68	.82		
1472-6A	3/8×1/8	.72	.75		
1472-6×4B	3/8×1/4×1/4	.72×.67	.91		
1472-6B	3/8×1/4	.78	.91		
1472-6C	3/8×3/8	.83	.91		
1472-8B	1/2×1/4	.87	.92		
1472-8C	1/2×3/8	.92	.99		
1472-8D	1/2×1/2	1.02	1.02		
1472-10D	5/8×1/2	1.09	1.20		

Male Branch Tee
(Ref.SAE.No 100425 BA)



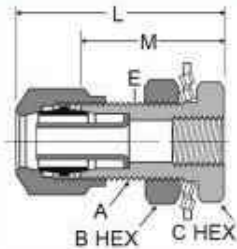
PART#	TUBE×NPTF	M	N	W.G	Price
1480-4A	1/4×1/8	.49	.63		
1480-4B	1/4×1/4	.60	.85		
1480-4C	1/4×3/8	.63	.89		
1480-6A	3/8×1/8	.71	.68		
1480-6B	3/8×1/4	.72	.84		
1480-6C	3/8×3/8	.76	.95		
1480-6D	3/8×1/2	.78	1.16		
1480-8B	1/2×1/4	.84	.94		
1480-8C	1/2×3/8	.84	.94		
1480-8D	1/2×1/2	.87	1.16		
1480-10C	5/8×3/8	.93	.98		
1480-10D	5/8×1/2	.93	1.16		

45° Male Elbow
(Ref.SAENO.100302 BA)



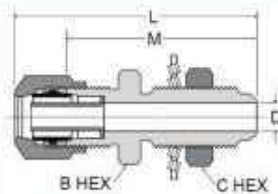
D.O.T AIR BRAKE NYLON TUBING

Bulkhead Union



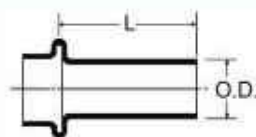
PART#	TUBE×NPTF	C	E	A	M	W.G
1495-6C	3/8×3/8	1-1/16	7/8-14	17/32-24	1.42	
1495-8C	1/2×3/8	1-1/16	7/8-14	11/16-20	1.57	

Bulkhead Union



PART#	TUBE×THREAD	B	C	M	D	W.G
1462BF-4	1/4×7/16-24	9/16	9/16	1.38	.137	
1462BF-6	3/8×17/32-24	11/16	3/4	1.62	.217	
1462BF-8	1/2×11/16-20	13/16	1"	1.88	.338	
1462BF-10	5/8×13/16-18	15/16	1"	2.02	.398	

Insert

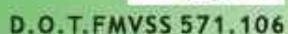
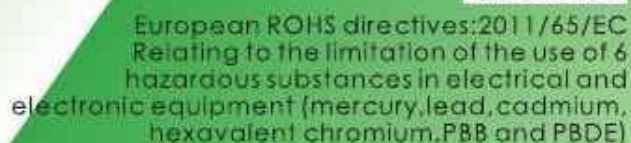
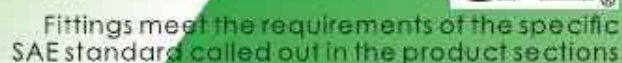


PART#	TUBE O.D	L	O.D	W.G	Price
1484-4	1/4	.53	.163		
1484-6	3/8	.64	.245		
1484-8	1/2	.81	.370		
1484-10	5/8	.86	.434		
1484-12	3/4	1.04	.559		



D.O.T AIR BRAKE COPPER TUBING

Meets D.O.T. FMVSS 571.106
Meets SAE J246 & J1131
Use with Copper Tubing
Reusable



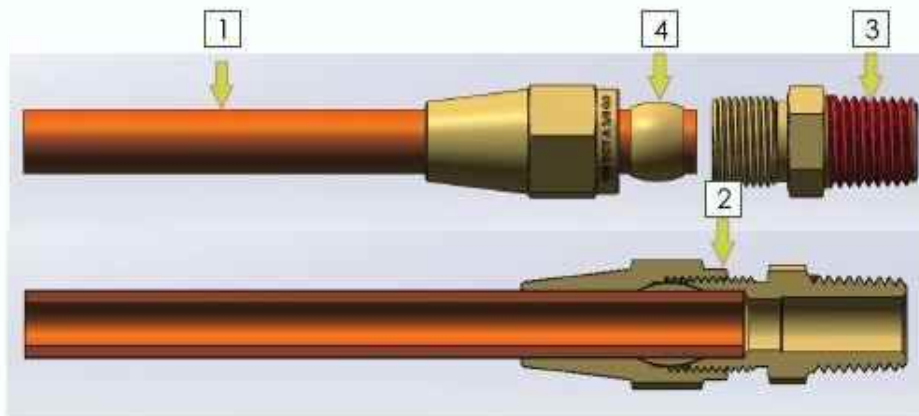
Fittings comply with the performance requirements



02



D.O.T AIR BRAKE COPPER TUBING



1 Tube 2 Thread size-B 3 Thread pre-coating glue 4 sleeve

TUBE O.D	1/4"	3/8"	1/2"	5/8"	3/4"
Thread size-B	7/16-24	17/32-24	11/16-20	13/16-18	1"-18

Typical Application:

Air brake systems.

Pressure:

Maximum operating pressure of 150 psi.

Vibration:

Fair resistance.

Temperature Range:

-65° F to +250° F (-53° C to +121° C) with copper tubing.

Material:

CA360 Brass.

Used With:

Copper tubing in air brake systems.

Advantages:

Easy to assemble (no flaring). May be used with nylon tubing by replacing long nut and spherical sleeve with insert, rigid sleeve and nut.

Conformance:

Meets specifications and standards of SAE and DOT.

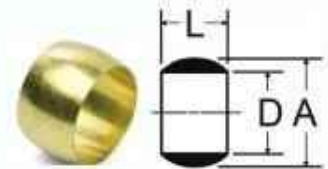
TUBING O.D SIZE



D.O.T AIR BRAKE COPPER TUBING

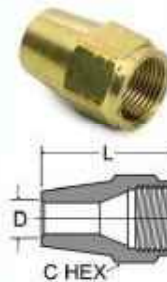
PART#	TUBE SIZE	A	D	L	W.G	Price
1360-4	1/4	.322	.255	.250		
1360-6	3/8	.461	.382	.310		
1360-8	1/2	.594	.507	.380		
1360-10	5/8	.734	.632	.440		
1360-12	3/4	.874	.758	.500		

Sleeve
(Ref.SAENo.120115 BA)



PART#	TUBE SIZE	C	D	L	W.G	Price
1361-4	1/4	9/16	.256	.75		
1361-6	3/8	5/8	.384	1.13		
1361-8	1/2	13/16	.509	1.25		
1361-10	5/8	15/16	.635	1.38		
1361-12	3/4	1-1/8	.760	1.56		

Nut
(Ref.SAENo.120111 BA)



PART#	TUBE SIZE	C	D	M	W.G	Price
1362-4	1/4	7/16	.189	.83		
1362-6	3/8	9/16	.314	1.08		
1362-8	1/2	11/16	.405	1.29		
1362-10	5/8	13/16	.531	1.41		
1362-12	3/4	1"	.656	1.59		

Union
(Ref.SAENo.120101BA)



PART#	TUBE SIZE	C	D	M	W.G	Price
1374-4	1/4	9/16	.188	1.38		
1374-6	3/8	3/4	.314	1.62		
1374-8	1/2	1"	.408	1.88		

Bulkhead Union



D.O.T AIR BRAKE COPPER TUBING

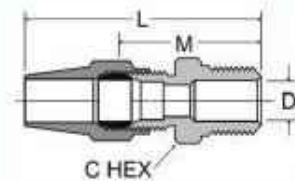
PART#	TUBE SIZE	M	W.G	Price
1365-4	1/4	.62		
1365-6	3/8	.70		
1365-8	1/2	.93		
1365-10	5/8	1.02		

Union Elbow
(Ref.SAENo.120201 BA)

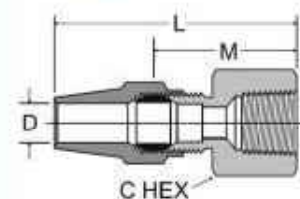


PART#	TUBE×NPTF	C	D	M	W.G	Price
1368-4A	1/4×1/8	7/16	.219	.88		
1368-4B	1/4×1/4	9/16	.312	1.09		
1368-4C	1/4×3/8	11/16	.438	1.12		
1368-6A	3/8×1/8	9/16	.219	1.02		
1368-6B	3/8×1/4	9/16	.312	1.20		
1368-6C	3/8×3/8	11/16	.438	1.23		
1368-6D	3/8×1/2	7/8	.562	1.42		
1368-8B	1/2×1/4	11/16	.312	1.32		
1368-8C	1/2×3/8	11/16	.438	1.32		
1368-8D	1/2×1/2	7/8	.562	1.51		
1368-10C	5/8×3/8	13/16	.438	1.38		
1368-10D	5/8×1/2	7/8	.562	1.57		
1368-10E	5/8×3/4	1-1/16	.750	1.63		
1368-12D	3/4×1/2	1"	.562	1.67		
1368-12E	1/2×3/4	1-1/16	.750	1.70		

Male Connector
(Ref.SAENo.120102 BA)



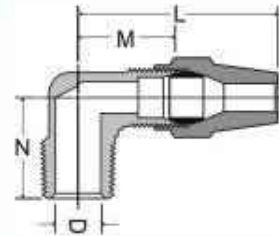
Female Connector
(Ref.SAENo.120103 BA)



D.O.T AIR BRAKE COPPER TUBING

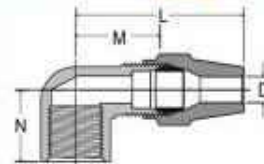
PART#	TUBE×NPTF	M	N	D	W.G	Price
1369-4A	1/4×1/8	.62	.66	.219		
1369-4B	1/4×1/4	.68	.87	.312		
1369-4C	1/4×3/8	.73	.86	.438		
1369-6A	3/8×1/8	.73	.75	.562		
1369-6B	3/8×1/4	.79	.92	.312		
1369-6C	3/8×3/8	.84	.91	.438		
1369-6D	3/8×1/2	.94	1.10	.562		
1369-8B	1/2×1/4	.86	.99	.312		
1369-8C	1/2×3/8	.93	.99	.438		
1369-8D	1/2×1/2	1.03	1.18	.562		
1369-10C	5/8×3/8	1.00	1.05	.438		
1369-10D	5/8×1/2	1.09	1.24	.562		
1369-12D	3/4×1/2	1.19	1.32	.562		
1369-12E	3/4×3/4	1.26	1.32	.760		

90° Male Elbow
(Ref.SAENo.120202 BA)



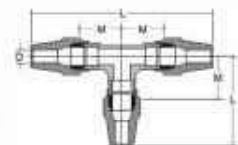
PART#	TUBE×NPTF	M	N	D	W.G	Price
1370-4A	1/4×1/8	.69	.52	.189		
1370-4B	1/4×1/4	.78	.71	.189		
1370-6A	3/8×1/8	.83	.59	.314		
1370-6B	3/8×1/4	.89	.77	.314		
1370-6C	3/8×3/8	.93	.77	.314		
1370-8C	1/2×3/8	1.03	.82	.408		
1370-8D	1/2×1/2	1.13	1.01	.408		

90° Female Elbow
(Ref.SAENo.120203 BA)



PART#	TUBESIZE	M	D	W.G	Price
1364-4	1/4	.62	.189		
1364-6	3/8	.78	.314		
1364-8	1/2	.90	.408		
1364-10	5/8	1.09	.533		

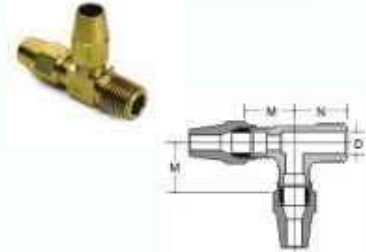
Union Tee
(Ref.SAENo.120401 BA)



D.O.T AIR BRAKE COPPER TUBING

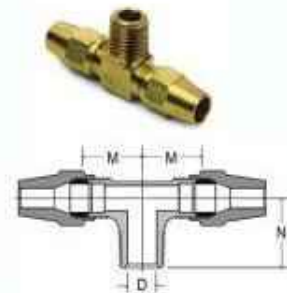
PART#	TUBE×NPTF	M	N	D	W.G	Price
1371-4A	1/4×1/8	.62	.66	.219		
1371-4B	1/4×1/4	.68	.87	.312		
1371-6B	3/8×1/4	.703	.86	.312		
1371-6C	3/8×3/8	.71	.89	.438		
1371-8C	1/2×3/8	.93	.89	.438		
1371-8D	1/2×1/2	1.03	1.18	.562		

Male Run Tee
(Ref.SAE.No.120424 BA)



PART#	TUBE×NPTF	M	N	D	W.G	Price
1372-4A	1/4×1/8	.62	.66	.219		
1372-4B	1/4×1/4	.68	.87	.312		
1372-8A	3/8×1/8	.72	.75	.219		
1372-6B	3/8×1/4	.79	.92	.312		
1372-6C	3/8×3/8	.84	.91	.438		
1372-8C	1/2×3/8	.93	.99	.438		
1372-8D	1/2×1/2	1.03	1.18	.562		

Male Branch Tee
(Ref.SAE.No.120425 BA)



PART#	TUBE×NPTF	M	N	W.G	Price
1380-4A	1/4×1/8	.49	.63		
1380-4B	1/4×1/4	.60	.85		
1380-6A	3/8×1/8	.71	.68		
1380-6B	3/8×1/4	.71	.85		
1380-6C	3/8×3/8	.75	.94		
1380-6D	3/8×1/2	.76	1.20		
1380-8C	1/2×3/8	.84	.94		
1380-8D	1/2×1/2	.87	1.16		
1380-10C	5/8×3/8	.93	.98		
1380-10D	5/8×1/2	.93	1.16		

45° Male Elbow
(Ref.SAENO.120302 BA)





D.O.T AIR BRAKE HOSE/ENDS

D.O.T AIR BRAKE HOSE/ENDS

Meets D.O.T.FMVSS 571.106
Meets SAE Air Brake
Hose



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



D.O.T.FMVSS 571.106

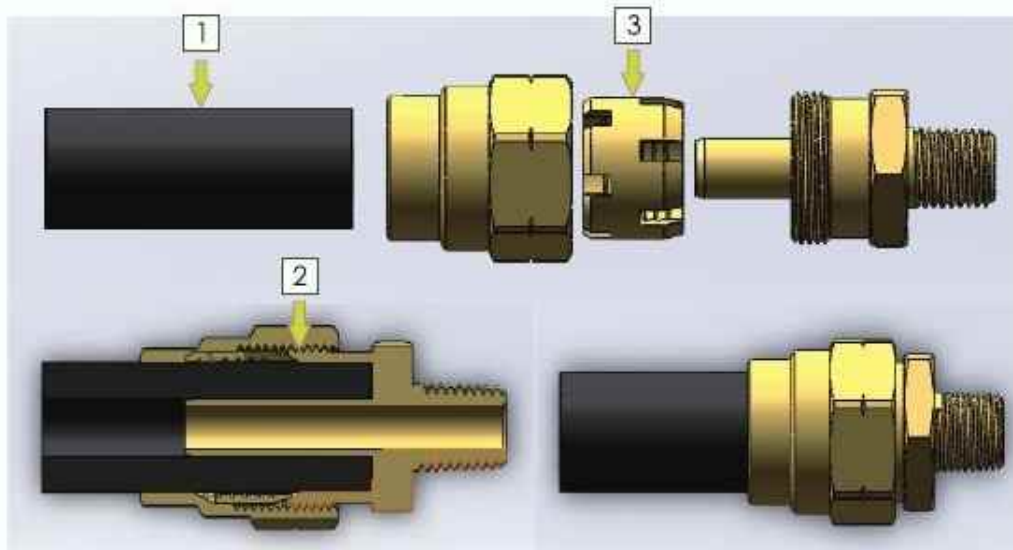
Fittings comply with the performance requirements



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D.O.T AIR BRAKE HOSE/ENDS



[1] Rubber Tube

[2] Thread size-B

[3] sleeve

TUBE I.D	3/8"	1/2"
Thread size-B	17/32-24	11/16-20

Typical Application:

Air brake hose connections

Pressure:

Maximum operating pressure of 125 psi.

Vibration:

Fair resistance.

Temperature Range:

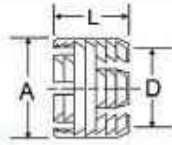
-40° F to +120° F, with copper tubing.

Material:

CA360 Brass.

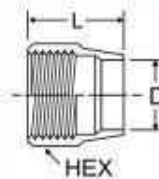
D.O.T AIR BRAKE HOSE/ENDS

Sleeve



PART#	TUBE SIZE	A	D	L	Weight	Price
60RB-6	3/8 I.D	.90	.78	.69		
60RB-8	1/2 I.D	1.03	.92	.69		

Nut



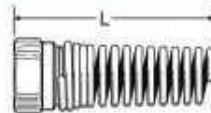
PART#	TUBE SIZE	C	D	L	Weight	Price
61RB-6	3/8 I.D	1-1/16	.80	1.19		
61RB-8	1/2 I.D	1-1/4	.92	1.20		

Spring Guard Nut



PART#	TUBE SIZE	C	D	L	Weight	Price
61RBSG-6	3/8 I.D	1-1/16	.80	1.19		
61RBSG-8	1/2 I.D	1-1/4	.92	1.20		

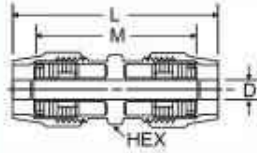
Air Brake Hose Nut & Attached Spring



PART#	TUBE SIZE	L	Weight	Price
67RBSG-6	3/8 I.D	3.65		
67RBSG-8	1/2 I.D	3.75		

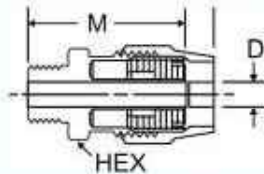
D.O.T AIR BRAKE HOSE/ENDS

Union



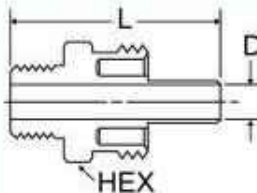
PART#	TUBE SIZE	C	D	M	Weight	Price
62RB-6	3/8	1-1/16	.281	2.55		
62RB-8	1/2	1-1/4	.390	2.55		

Male Connector



PART#	TUBE X NPTF	C	D	M	Weight	Price
68RB-6B	3/8 x 1/4	31/32	.281	1.91		
68RB-6C	3/8 x 3/8	31/32	.281	1.91		
68RB-6D	3/8 x 1/2	31/32	.281	2.06		
68RB-8C	1/2 x 3/8	1-1/8	.390	1.91		
68RB-8D	1/2 x 1/2	1-1/8	.390	2.07		

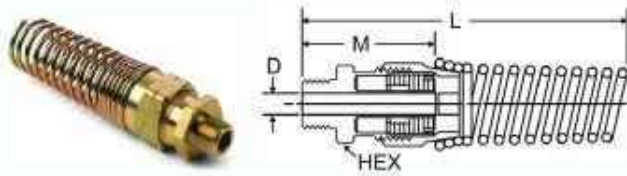
Male Connector BODY



PART#	TUBE X NPTF	C	D	M	Weight	Price
68RBN-6B	3/8 x 1/4	31/32	.281	1.91		
68RBN-6C	3/8 x 3/8	31/32	.281	1.91		
68RBN-6D	3/8 x 1/2	31/32	.281	2.02		
68RBN-8C	1/2 x 3/8	1-1/8	.390	1.91		
68RBN-8D	1/2 x 1/2	1-1/8	.390	2.07		

D.O.T AIR BRAKE HOSE/ENDS

Male Connector & Attached Spring



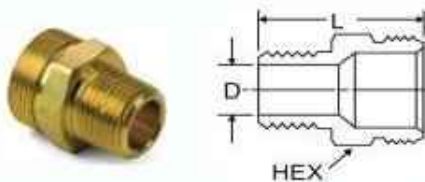
PART#	TUBE×NPTF	C	D	M	Weight	Price
68RBSG-6B	3/8×1/4	31/32	.312	1.91		
68RBSG-6C	3/8×3/8	31/32	.438	1.91		
68RBSG-6D	3/8×1/2	31/32	.562	2.06		
68RBSG-8C	1/2×3/8	1-1/8	.438	1.91		
68RBSG-8D	1/2×1/2	1-1/8	.562	2.07		

Female Swivel connector



PART#	TUBE×UNF	C	C2	M	Weight	Price
66RBSV-6	3/8×3/4-20	31/32	7/8	1.96		
66RBSV-8	1/2×7/8-20	1-1/8	1"	2.10		

Adapter



PART#	TUBE×NPTF	C	D	L	Weight	Price
76RB-6B	3/8×1/4	3/4	.312	1.14		
76RB-6C	3/8×3/8	3/4	.438	1.14		
76RB-6D	3/8×1/2	3/4	.562	1.37		
76RB-8C	1/2×3/8	7/8	.438	1.26		
76RB-8D	1/2×1/2	7/8	.562	1.38		



Transmission Fittings

Transmission Fittings

Brass Body
D.O.T Approved with Staked in Tube Support
3/16" & 5/32" Tube Size

Markets

Heavy Duty Truck

Applications

Air Shift Transmissions
Seat Controls
Dash Controls

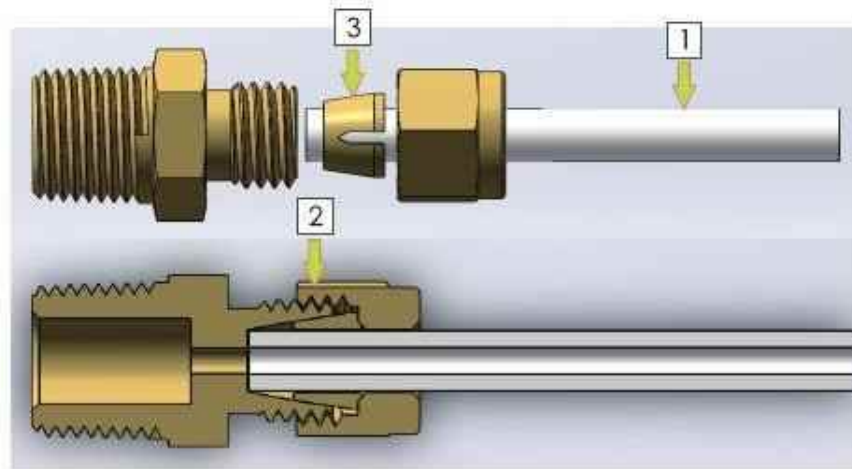


D.O.T. FMVSS 571.106

Fittings comply with the performance requirements



Transmission Fittings



1 Tube

2 Thread size-B

3 sleeve

TUBE I.D	1/8"	5/32"
Thread size-B	5/16-24	5/16-24

Typical Application:

Air Shift Transmissions Seat Controls Dash Controls

Pressure:

Maximum operating pressure of 150psi.

Vibration:

Fair resistance.

Temperature Range:

-40° F to +200° F, with copper tubing.

Compatible Tubing:

SAE J844 Type A & B nylon tubing

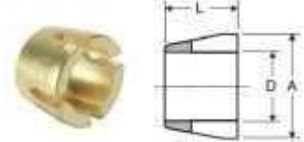
Material:

CA360 Brass.

Transmission Fittings

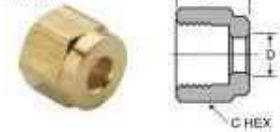
PART#	Tube Size	A	D	L	W.G	Price
60TF-2	1/8	.235	.130	.17		
60TF-5/32	5/32	.251	.165	.18		

Sleeve



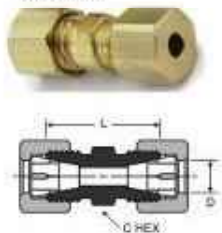
PART#	Tube Size	C	D	L	W.G	Price
61TF-2	1/8	3/8	.133	.32		
61TF-5/32	5/32	3/8	.163	.32		

Nut



PART#	Tube Size	C	D	L	W.G	Price
62TF-2	1/8	5/16	.133	.68		
62TF-5/32	5/32	5/16	.163	.68		

Union



Male Connector



PART#	Tube Size x Thread	C	D	L	W.G	Price
68TF-2-1	1/8 x 1/16	11/32	.133	.66		
68TF-2-2	1/8 x 1/8	7/16	.133	.78		
68TF-5/32-1	5/32 x 1/16	11/32	.163	.66		
68TF-5/32-2	5/32 x 1/8	7/16	.163	.78		

Male Elbow





GARDEN HOSE

Garden Hose Fittings

Heavy Duty Construction
Use with Hose Clamp
Coupler option



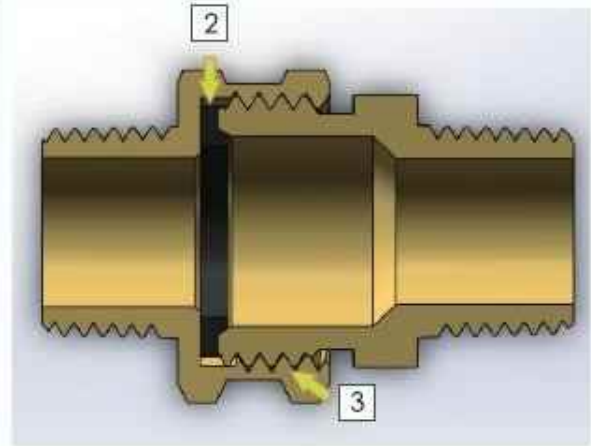
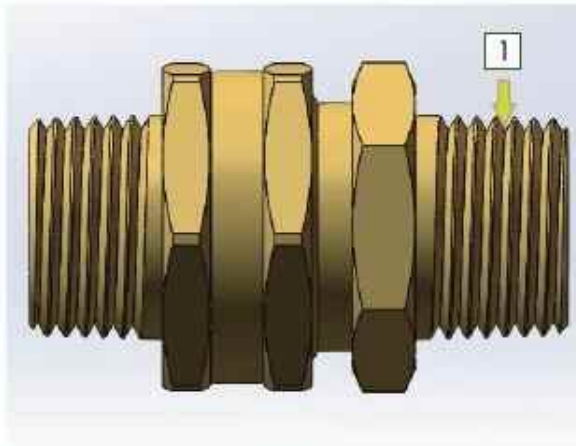
Fittings meet the requirements of the specific SAE standard called out in the product section



European ROHS directives: 2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury, lead, cadmium,
hexavalent chromium, PBB and PBDE)



GARDEN HOSE FITTINGS



1 pipe thread 2 'O' -ring 3 outside diameter of 1.0625 and 11-1/2" threads per inch

Typical Application:

Connect garden hose to other garden.

Pressure:

UP to 150PSI

Vibration:

Fair resistance.

Temperature Range:

Working temperature from +35° F TO +100° F AT 75PSI

Material:

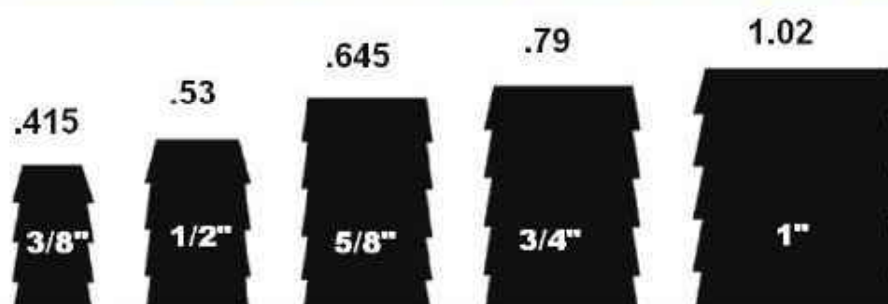
CA 360 Brass for Barstack fittings, CA377 Brass for forged fittings

NOTE:

1: All female connector ends should have rubber washer inserted prior to usage

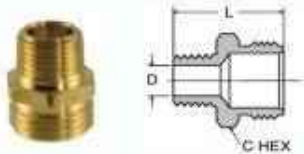
2: For AB1953 Compliant Fitting (Lead Free)

Actual Profile of Garde Hose Barbs



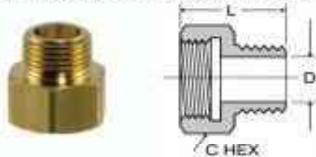
HOSE BARB

Male Garden Hose Adapters



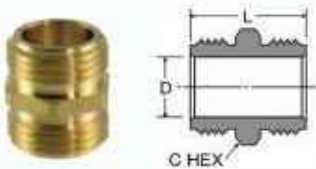
PART#	MGHxMALE NPTF	C	D	L	W.G	Price
69GH-12-4	3/4x1/4	1-1/16	.410	1.25		
69GH-12-6	3/4x3/8	1-1/16	.438	1.25		
70GH-12-8	3/4x1/2	1-1/16	.562	1.32		
71GH-12-12	3/4x3/4	1-1/16	.750	1.35		

Female Garden Hose Adapters



PART#	FGHxMALE NPTF	C	D	L	W.G	Price
82GH-12-8	3/4x1/2	1-3/16	.562	1.20		
83GH-12-12	3/4x3/4	1-3/16	.750	1.22		

Male Garden Hose Adapters



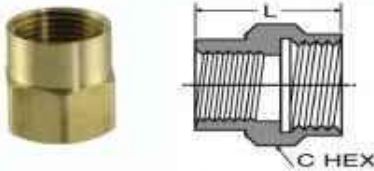
PART#	HOSE THREAD	C	D	L	W.G	Price
75GH-12-12	3/4	1-1/16	.750	1.25		

Female Garden Hose Adapters



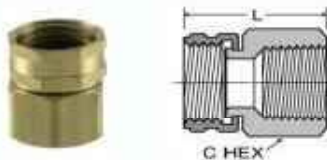
PART#	MGHxFemale NPTF	C	L	W.G	Price
78GH-12-4	3/4x1/4	1-1/16	0.75		
79GH-12-6	3/4x3/8	1-1/16	0.75		
80GH-12-8	3/4x1/2	1-1/16	0.75		
81GH-12-12	3/4x3/4	1-1/8	1.12		

Female Garden Hose Adapters



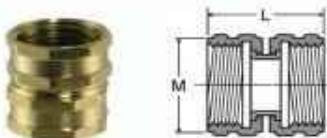
PART#	MGHxFemale NPTF	C	L	W.G	Price
98GH-12-8	3/4x1/2	1-1/16	1.14		
99GH-12-12	3/4x3/4	1-1/8	1.17		

Female Garden Hose Swivel Adapters



PART#	FGHxFemale NPTF	C	L	W.G	Price
98GHSV-12-8	3/4x1/2	1"	1.20		
99GHSV-12-12	3/4x3/4	1-1/8	1.20		

Female Garden Hose Swivel Adapters



PART#	FGHxFGH	C	L	W.G	Price
101GHSV-12	3/4x3/4	1-1/8	1.10		

Garden Hose Octagon Nuts



PART#	HOSE SIZE	C	D	L	W.G	Price
94GH-12	3/4	HEX:1-1/8	.808	.63		
95GH-12	3/4	Knurled:1-1/8	.808	.57		

HOSE BARB

PART#	I.D HOSE x NPSM	C	D	L	W.G	Price
**53GH-8-12	1/2 x 3/4	1-1/16	.403	1.56		
53GHL-8-12	1/2 x 3/4	1-1/16	.403	1.88		
*53GHLL-8-12	1/2 x 3/4	1-1/16	.403	2.72		
**54GH-10-12	5/8 x 3/4	1-1/16	.500	1.56		
54GHL-10-12	5/8 x 3/4	1-1/16	.500	1.88		
*54GHLL-10-12	5/8 x 3/4	1-1/16	.500	2.72		
**55GH-12-12	3/4 x 3/4	1-1/16	.625	1.56		
55GHL-12-12	3/4 x 3/4	1-1/16	.625	1.88		
*55GHLL-12-12	3/4 x 3/4	1-1/16	.625	2.72		

*LONG-2" SHANK
**LIGHT

Garden Hose Male End Only



PART#	I.D HOSE x NPSM	C	D	L	W.G	Price
**90GH-8-12	1/2 x 3/4	1-1/8	.403	1.47		
90GHL-8-12	1/2 x 3/4	1-1/8	.403	1.82		
*90GHLL-8-12	1/2 x 3/4	1-1/8	.403	2.55		
**90GH-10-12	5/8 x 3/4	1-1/8	.500	1.47		
90GHL-10-12	5/8 x 3/4	1-1/8	.500	1.82		
*90GHLL-10-12	5/8 x 3/4	1-1/8	.500	2.55		
**90GH-12-12	3/4 x 3/4	1-1/8	.625	1.47		
90GHL-12-12	3/4 x 3/4	1-1/8	.625	1.82		
*90GHLL-12-12	3/4 x 3/4	1-1/8	.625	2.55		

*LONG-2" SHANK
**LIGHT

Garden Hose Female End Only



Garden Hose Female End Only
Short Shank Knurled NUT



PART#	I.D HOSE x NPSM	C	D	L	W.G	Price
K90GH-8-12	1/2 x 3/4	1-1/8	.403	1.47		
K90GH-10-12	5/8 x 3/4	1-1/8	.500	1.47		
K90GH-12-12	3/4 x 3/4	1-1/8	.625	1.47		



HOSE BARB

Garden Hose Spray
Nozzles, Sweepers



PART#	NPSM	C	L	W.G	Price
PSN76	3/4	1-1/8	1.47		



POL BOTTLEGAS

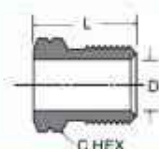
POL (Bottle Gas)

Use with Polyethylene Tubing
Economical
One-piece
Compact
Reusable



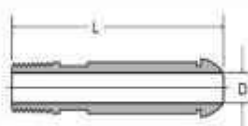
Used for making connections in LP gas systems
POL Thread 880-14LH

POL Nut



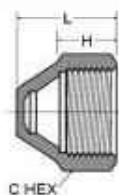
PART#	THREAD	C	D	L	W.G	Price
2001	7/8-14	7/8	.567	.996		

POL Tailpiece



PART#	THREAD	D	L	W.G	Price
2002	7/8-14	.25	2.54		

POL CAP



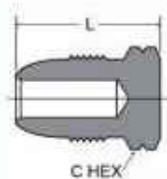
PART#	THREAD	C	H	L	W.G	Price
2004	.880-14LH	1-1/8	.63	1.12		

CONNECTORS



PART#	T	T1	C	L	D	W.G	Price
2005	.880-14LH	5/8-18	7/8	1.97	.281		
2006	.880-14LH	3/4-16	7/8	2.09	.281		
2007	.880-14LH	7/8-14	7/8	2.22	.281		

POL PLUG



PART#	THREAD	C	L	W.G	Price
2014	.880-14LH	7/8	1.34		



INVERTED FLARE

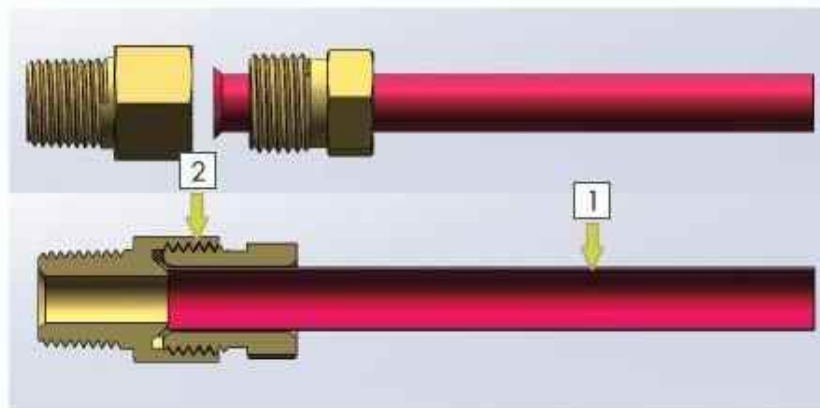
INVERTED FLARE

Typical Application
Hydraulic brake, power
steering, fuel lines and
trans-mission cooler lines
,LP and natural gas





Inverted Flare



1 Tube

2 Thread size-B

TUBE O.D.	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Thread size-B	5/16-28	3/8-24	7/16-24	1/2-20	5/8-24	3/4-18	7/8-18	1"-1/16-18

PRESSURE RANGE		
PSI	TUBE O.D.(IN)	TUBE WALL(IN)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

MATERIALS OF CONSTRUCTION	
FITTINGS:	BRASS CA3600
NUTS:	BRASS AND ZINC CHROMATE STEEL

SPECIFICATIONS	
TEMPERATURE RANGE	FROM -65° TO +250°
OPERATING FLUID	WATER, AIR, INERT AND NON-COMBUSTIBLE GASES. COMPATIBLE WITH MATERIALS OF CONSTRUCTION
NOTE:	FOR OTHER TYPES OF FLUIDS OR GASES, PLEASE CONSULT FACTORY

Built to resist mechanical pullout this fitting can be assembled and disassembled repeatedly. Listed with Underwriter's Laboratories for flammable liquid and gas. Meets functional requirements of SAE J512.

Assembly Instructions

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. On thin wall copper, welded or brazed tubing, use double flare to prevent pinch-off or cracked flares.
4. Clamp tube flare between nut and flare seat of body by screwing nut on finger-tight. Tighten with a wrench an additional 1/4 turn for a metal-to-metal seal.

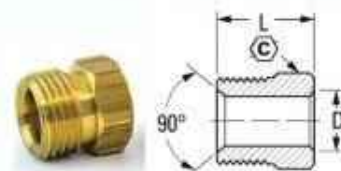
Note: The seat dimensions are predicated on practical threading limitations and use of these fittings with double flared tubing.



Inverted Flare

PART#	O.D	C	D	L	W.G	Price
100-3	3/16	3/8	.196	.56		
100-4	1/4	7/16	.259	.56		
100-5	5/16	1/2	.321	.62		
100-6	3/8	5/8	.384	.66		
100-8	1/2	3/4	.508	.74		

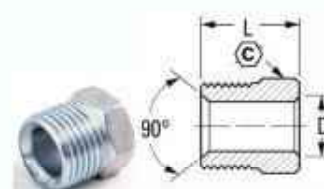
Tube Nut



{BRASS}
{Ref.SAE No.040110}

PART#	O.D	C	D	L	W.G	Price
105-3	3/16	5/16	.196	.56		
105-4	1/4	3/8	.259	.56		
105-5	5/16	7/16	.321	.62		
105-6	3/8	5/8	.384	.66		
105-8	1/2	3/4	.508	.74		
105-10	5/8	7/8	.632	.80		
105-12	3/4	1-1/16	.757	.88		

Tube Nut



{STEEL}
{Ref.SAE No.040110}

PART#	O.D	C	D	L	W.G	Price
131-3	3/16	3/8	.188	.53		
131-4	1/4	7/16	.188	.54		
131-5	5/16	1/2	.250	.59		
131-6	3/8	5/8	.312	.66		

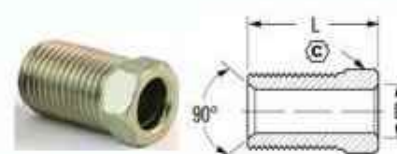
Pulg



{STEEL}
{Ref.SAE No.040109}

PART#	O.D	C	D	L	W.G	Price
105L-3	3/16	3/8	.188	.53		
105L-4	1/4	7/16	.188	.54		
105L-5	5/16	1/2	.250	.59		
105L-6	3/8	5/8	.312	.66		

Tube Long Nut

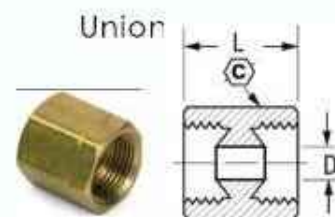


{STEEL}



Inverted Flare

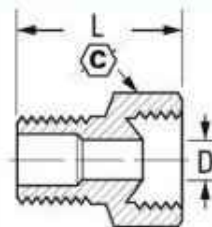
PART#	O.D	C	D	L	W.G	Price
302-2	1/8	13/32	.078	.59		
302-3	3/16	15/32	.125	.62		
302-4	1/4	17/32	.188	.62		
302-5	5/16	15	.219	.70		
302-6	3/8	3/4	.281	.80		
302-8	1/2	29/32	.406	.91		



{Ref.SAENo.040101}

PART#	O.D×THREAD	C	D	L	W.G	Price
202-2A	1/8×1/8	13/32	.078	.62		
202-3A	3/16×1/8	15/32	.125	.70		
202-4A	1/4×1/8	17/32	.188	.74		
202-4B	1/4×1/4	9/16	.188	.89		
202-5A	5/16×1/8	19/32	.219	.79		
202-5B	5/16×1/4	19/32	.220	.98		
202-6A	3/8×1/8	3/4	.281	.89		
202-6B	3/8×1/4	3/4	.281	1.03		
202-6C	3/8×3/8	3/4	.281	1.01		
202-8B	1/2×1/4	29/32	.406	1.08		
202-8C	1/2×3/8	29/32	.406	1.07		
202-8D	1/2×1/2	29/32	.406	1.26		
202-10D	5/8×1/2	1-1/16	.531	1.32		
202-12E	3/4×3/4	1-1/4	.625	1.39		

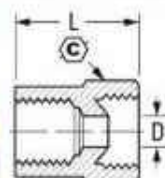
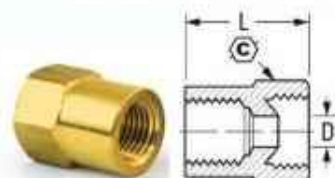
Male Connector



{Ref.SAENo.040102}

PART#	O.D×THREAD	C	D	L	W.G	Price
252-3A	3/16×1/8	15/32	.125	.62		
252-4A	1/4×1/8	17/32	.188	.62		
252-5A	5/16×1/8	15	.219	.70		
252-6B	3/8×1/4	3/4	.281	.80		
252-8C	1/2×3/8	29/32	.406	.91		

Female Connector



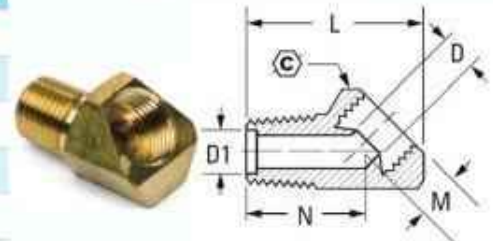
{Ref.SAENo.040103}



Inverted Flare

PART#	O.D×THREAD	C	D	L	W.G	Price
352-3A	3/16×1/8	17/32	.125	.88		
352-4A	1/4×1/8	9/16	.188	.94		
352-5A	5/16×1/8	5/8	.219	1.00		
352-5B	5/16×1/4	5/8	.219	1.16		
352-6B	3/8×3/8	25/32	.281	1.34		
352-8C	1/2×3/8	7/8	.406	1.44		

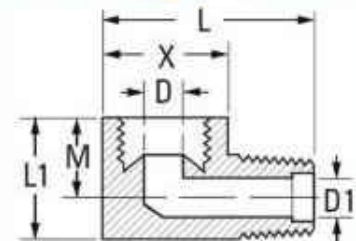
45° Male Elbow



{Ref.SAE No.040302}

PART#	O.D×THREAD	X	D	L	W.G	Price
402-2A	1/8×1/8	.42	.078	.80		
402-3A	3/16×1/8	.47	.125	.70		
402-4A	1/4×1/8	.53	.188	.74		
402-4B	1/4×1/4	.56	.188	.89		
402-5A	5/16×1/8	.59	.219	.79		
402-5B	5/16×1/4	.59	.220	.98		
402-6A	3/8×1/8	.76	.281	.89		
402-6B	3/8×1/4	.76	.281	1.03		
402-6C	3/8×3/8	.75	.281	1.01		
402-8B	1/2×1/4	.91	.406	1.08		
402-8C	1/2×3/8	.92	.406	1.07		
402-8D	1/2×1/2	.91	.406	1.26		
402-10D	5/8×1/2	1.06	.531	1.32		

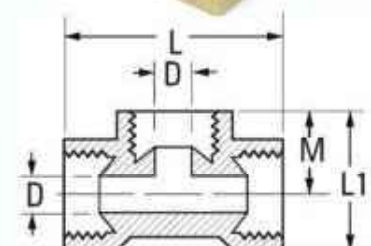
90° Male Elbow



{Ref.SAE No.040202}

PART#	O.D	D	L	M	W.G	Price
702-2	1/8	.078	.94	.330		
702-3	3/16	.125	1.09	.390		
702-4	1/4	.188	1.13	.420		
702-5	5/16	.219	1.25	.450		
702-6	3/8	.281	1.48	.560		
702-8	1/2	.406	1.76	.937		

Union Tee



{Ref.SAE No.040401}



D.O.T Air Brake Hose Assemblies

Air Brake Hose Assemblies

Meets or exceeds SAE J1402-Type A
Meets or exceeds DOT FMVSS NO. 106-Brake hose,
49DFR 571.106



Air Brake Hose Assemblies Fittings



Slider Hose Assemblies



- SAE J1402-Type A rubber air brake hose
- Factory crimped swivel hose fittings with adapters
- Detachable frame fittings with 7/8"-20 mounting threads
- Integral NT air brake fittings for nylon tubing
- Available with or without spring guards
- All assemblies meet or exceed DOT FMVSS NO.106,49CFR 571-106

Slider Hose Assemblies

Part Number	Fittings	Hose I.D	Length
LE-38108	3/8" O.D Tube Fittings with spring Guard	3/8"	108"
LE-38120	3/8" O.D Tube Fittings with spring Guard	3/8"	120"
LE-38126	3/8" O.D Tube Fittings with spring Guard	3/8"	126"
LE-38088	3/8" O.D Tube Fittings with spring Guard	3/8"	98"
LE-38112	3/8" O.D Tube Fittings with spring Guard	3/8"	112"

Single Swivel End Air Brake Hose Assemblies & Air Brake Hose Assemblies

- Factory tested to ensure quality
- Meets or exceeds SAE J1402-Type A
- Meets or exceeds DOT FMVSS NO. 106-Brake hose, 49 CFR 571.106



Air Brake Hose Assemblies

Length	3/8"Hose X 1/4"NPTF	3/8"Hose X 3/8"NPTF	1/2"Hose X 3/8"NPTF
12"	LE-381412		
14"	LE-381414	LE-383814	LE-123814
18"	LE-381418	LE-383818	LE-123818
20"	LE-381420	LE-383820	LE-123820
22"	LE-381422	LE-383822	LE-123822
24"	LE-381424	LE-383824	LE-123824
26"	LE-381426	LE-383826	LE-123826
28"	LE-381428	LE-383828	LE-123828
30"	LE-381430	LE-383830	LE-123830
32"	LE-381432	LE-383832	LE-123832
34"	LE-381434	LE-383834	LE-123834
36"	LE-381436	LE-383836	LE-123836
40"	LE-381440	LE-383840	LE-123840
42"	LE-381442	LE-383842	LE-123842
44"	LE-381444	LE-383844	LE-123844
46"	LE-381446	LE-383846	LE-123846
48"	LE-381448	LE-383848	LE-123848
54"	LE-381454	LE-383854	LE-123854
60"	LE-381460	LE-383860	LE-123860
66"	LE-381466	LE-383866	LE-123866
72"	LE-381472	LE-383872	LE-123872
84"			LE-123884

HEAVY DUTY COILED AIR ASSEMBLIES



- Applications: Tractor to trailer
- Tube: Coiled Nylon Air Brake Tubing
- Temperature Range: -70 F +200 F (-57 C to +93 C)
- Meets SAE J844 and J1131 specifications
- Meets FMVSS 571.106 specifications

100

Heavy Duty Couled Air Assemblies

Part Number	Tube O.D		Length
LENL-121212	1/2"	BLUD	12"
LENL-121212	1/2"	RED	12"
LENL-121215	1/2"	BLUD	15"
LENL-121215	1/2"	RED	15"
LENL-121220	1/2"	BLUD	20"
LENL-121220	1/2"	RED	20"

*Blue for Service, Red for Emergency

Air Brake Hose Assemblies Fittings

*Select any part assembly as required Air Brake Hose Assemblies

Prar Number	Hose I.D	Pipe Thread
LE-3814	3/8"	1/4NPTF
LE-3838	3/8"	3/8NPTF
LE-1238	1/2"	3/8NPTF
LE-1212	1/2"	1/2NPTF



Prar Number	Hose I.D	Thread
LE-S3834	3/8"	3/4NPTF
LE-S1234	1/2"	3/4NPTF



*For use with -76RB

Prar Number	Hose I.D	Pipe Thread
LE-SV3814	3/8"	1/4NPTF
LE-SV3838	3/8"	3/8NPTF
LE-SV1238	1/2"	3/8NPTF
LE-SV1212	1/2"	1/2NPTF



Prar Number	Hose I.D	Tube O.D
LE-B3834	3/8"	3/8"





HYDRAULIC QUICK COUPLINGS

Hydraulic Quick Couplings

ST Series non-valved couplings provide maximum flow and low pressure drop. The smooth, open bore allows easy cleaning in applications where the same lines are used for more than one media.

Features

- Steel nipples are case hardened for resistance to Brinelling
- Functionally interchanges with similar straight-through design couplings
- Standard Nitrile seals
- Material options available
- Sleeve-Lok option available

Applications:

- High pressure water
- Steam washers
- Carpet cleaners





Quick Couplings

LE Series non-valved couplings provide maximum flow and low pressure drop. The smooth, open bore allows easy cleaning in applications where the same lines are used for more than one media.

Features:

- Steel nipples are case hardened for resistance to Brinelling
- Functionally interchanges with similar straight-through design couplings
- Standard Nitrile seals
- Material options available
- Sleeve-Lok option available

Applications:

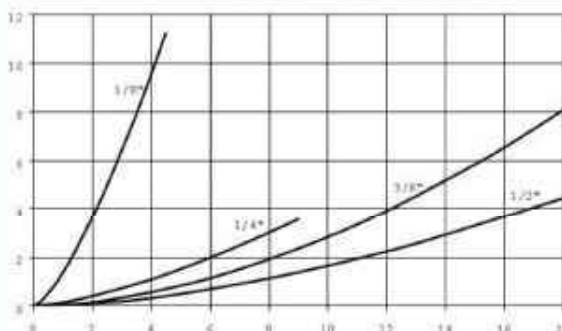
- High pressure water
- Steam washers
- Carpet cleaners

103

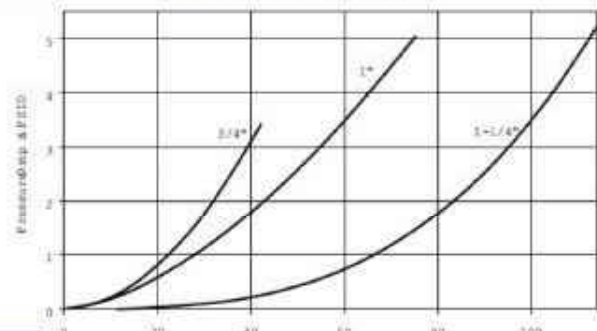
Body Size	Rated Pressure (psi) Brass Coupler/Nipple	Rated Pressure (psi) Brass Coupler/Steel Nipple	Rated Pressure (psi) 303 ss Coupler/Nipple	Temperature Range [standar seals]
1/8	2500	2600	4200	-40° to +250° F
1/4	5200	5500	6700	
3/8	2700	3500	5500	
1/2	2200	2700	3000	
3/4	1700	2700	3000	
1"	1200	2000	1700	
1-1/4	1700	-	-	
1-1/2	1400	-	-	

Performance

ST Series (1/8", 1/4", 3/8", 1/2")
Test Fluid: Oil - 150 SUS



ST Series (3/4", 1", 1-1/4")
Test Fluid: Oil - 150 SUS





Quick Couplings

LE Series Couplers-Female Pipe Thread



Body	Brass	303 Stainless	Port End	L	W.G	Price
Size	Part Number	Part Number	Thread	Inch	g	\$
1/8	BST-1	SST-1	1/8-27NPTF	1.01		
1/4	BST-2	SST-2	1/4-18NPTF	1.40		
3/8	BST-3	SST-3	3/8-18NPTF	1.60		
1/2	BST-4	SST-4	1/2-14NPTF	1.96		
3/4	BST-6	SST-6	3/4-14NPTF	2.10		
1"	BST-8	SST-8	1-11 1/2NPTF	2.36		
1"-1/4	BST-10	SST-10	1 1/4-11 1/2NPTF	2.36		
1"-1/2	BST-12	SST-12	1 1/2-11 1/2NPTF	2.89		

LE Series Couplers-Male Pipe Thread



Body	Brass	303 Stainless	Port End	L	W.G	Price
Size	Part Number	Part Number	Thread	Inch	g	\$
1/8	BST-1M	SST-1M	1/8-27NPTF	1.01		
1/4	BST-2M	SST-2M	1/4-18NPTF	1.66		
3/8	BST-3M	SST-3M	3/8-18NPTF	1.70		
1/2	BST-4M	SST-4M	1/2-14NPTF	2.00		
3/4	BST-6M	SST-6M	3/4-14NPTF	2.24		
1"	BST-8M	SST-8M	1-11 1/2NPTF	2.61		
1"-1/4	BST-10M	-	1 1/4-11 1/2NPTF	2.91		
1"-1/2	BST-12M	-	1 1/2-11 1/2NPTF	3.44		





Quick Couplings

LE Series Nipples-Female Pipe Thread



Brass



steel



Stainless steel



Body	Brass	303 Stainless	Part End	L	W.G	Price
Size	Part Number	Part Number	Thread	Inch	g	\$
1/8	BST-1	SST-1	1/8-27NPTF	.98		
1/4	BST-2	SST-2	1/4-18NPTF	1.47		
3/8	BST-3	SST-3	3/8-18NPTF	1.60		
1/2	BST-4	SST-4	1/2-14NPTF	1.82		
3/4	BST-6	SST-6	3/4-14NPTF	2.05		
1"	BST-8	SST-8	1-11 1/2NPTF	2.36		
1"-1/4	BST-10	SST-10	1 1/4-11 1/2NPTF	2.47		
1"-1/2	BST-12	SST-12	1 1/2-11 1/2NPTF	2.74		

LE Series Nipples-Male Pipe Thread



Brass



steel



Stainless steel



Body	Brass	303 Stainless	Part End	L	W.G	Price
Size	Part Number	Part Number	Thread	Inch	g	\$
1/8	BST-1M	SST-1M	1/8-27NPTF	1.01		
1/4	BST-2M	SST-2M	1/4-18NPTF	1.66		
3/8	BST-3M	SST-3M	3/8-18NPTF	1.70		
1/2	BST-4M	SST-4M	1/2-14NPTF	2.00		
3/4	BST-6M	SST-6M	3/4-14NPTF	2.24		
1"	BST-8M	SST-8M	1-11 1/2NPTF	2.61		
1"-1/4	BST-10M	-	1 1/4-11 1/2NPTF	2.91		
1"-1/2	BST-12M	-	1 1/2-11 1/2NPTF	3.44		





DRAIN COCKS

Garden Hose Fittings

Heavy Duty Construction

Use with Hose Clamp

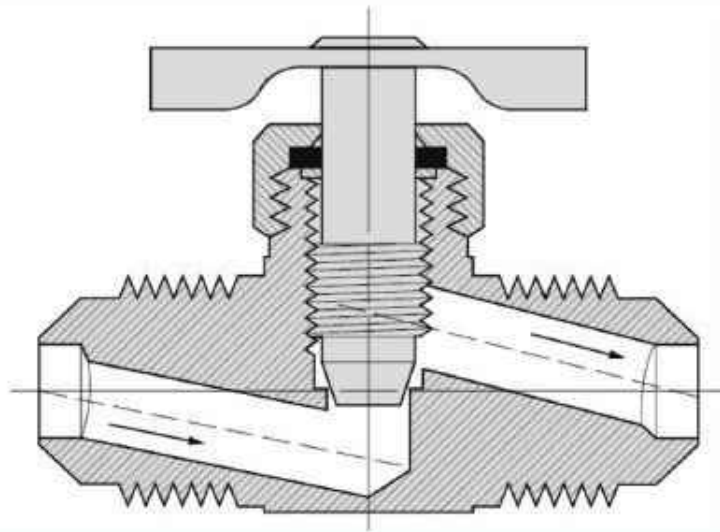
Coupler option



European ROHS directives;2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



Drain Cocks/ Ground Plug Shutoff

**Typical Application:**

Instrumentation, hydraulic and pneumatic systems.

Pressure:

150psi maximum.(Does not include plastic tubing)

Temperature Range:

-65° F to +250° F (-53° C to +121° C) with metal tubing For valves using compatible tubing ,refer to tubing temperature range

Material:

Brass bodies, steel handles except where noted.

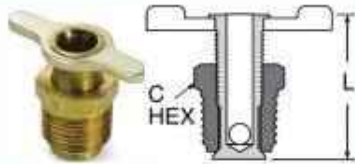
Polyline valves have brass bodies and brass handles

Used With:

copper, aluminum, steel and plastic tubing where applicable.

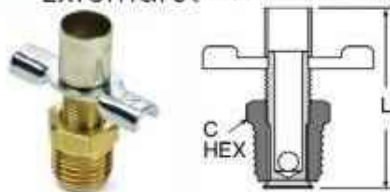
DRAIN COCKS

External Seal Drain Cock



PART#	PIPE THREAD	C	L	W.G	Price
DC-100A	1/8	7/16	.85		
DC-100B	1/4	9/16	1.00		
DC-100C	3/8	11/16	1.22		

External Seal Drain Cock



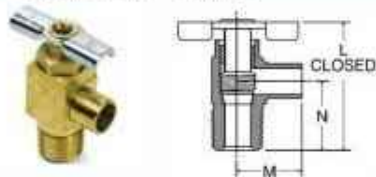
PART#	PIPE THREAD	C	L	W.G	Price
DC-101A	1/8	7/16	1.50		
DC-101B	1/4	9/16	1.70		

Drain Cock



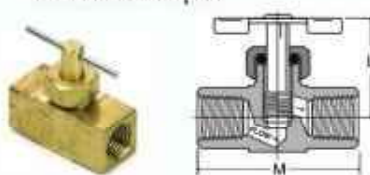
PART#	PIPE THREAD	C	M	L	W.G	Price
DC-103A	1/8	5/8	1.0	1.41		
DC-103B	1/4	5/8	1.16	1.54		
DC-103C	3/8	11/16	1.16	1.63		

Bib Drain Valve



PART#	PIPE THREAD	M	N	L	W.G	Price
DC-104B	1/4	.67	.71	1.32		

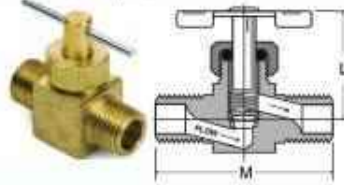
Female Pipe



PART#	PIPE THREAD	M	L	W.G	Price
DC-105A	1/8	1.12	.50		
DC-105B	1/4	1.62	.69		

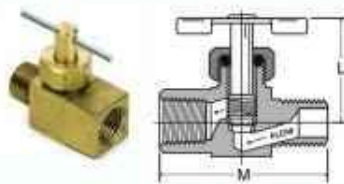
DRAIN COCKS

Male Pipe



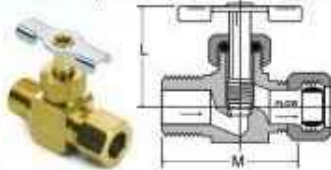
PART#	PIPE THREAD	M	L	W.G	Price
DC-106A	1/8	1.38	.66		
DC-106B	1/4	1.62	1.08		

Male to Female Pipe



PART#	PIPE THREAD	M	L	W.G	Price
DC-107A	1/8	1.18	.88		
DC-107B	1/4	1.88	1.09		

Compression Straightway



PART#	O.D X THREAD	M	L	W.G	Price
DC-108-4A	1/4 x 1/8	1.19	.88		
DC-108-4B	1/4 x 1/4	1.26	.91		
DC-108-6B	3/8 x 1/4	1.82	1.31		

Compression Double



PART#	HOSE O.D	M	L	W.G	Price
DC-109-4	1/4	1.13	.88		
DC-109-6	3/8	1.50	1.11		

Compression Angle



PART#	O.D X NPTF	M	N	L	W.G	Price
DC-110-4A	1/4 x 1/8	.53	.70	1.53		
DC-110-4B	1/4 x 1/4	.69	.75	1.76		
DC-110-6B	3/8 x 1/4	.78	.81	1.76		



Nickel-Plated BRASS FITTINGS

NICKEL-PLATED BRASS FITTINGS

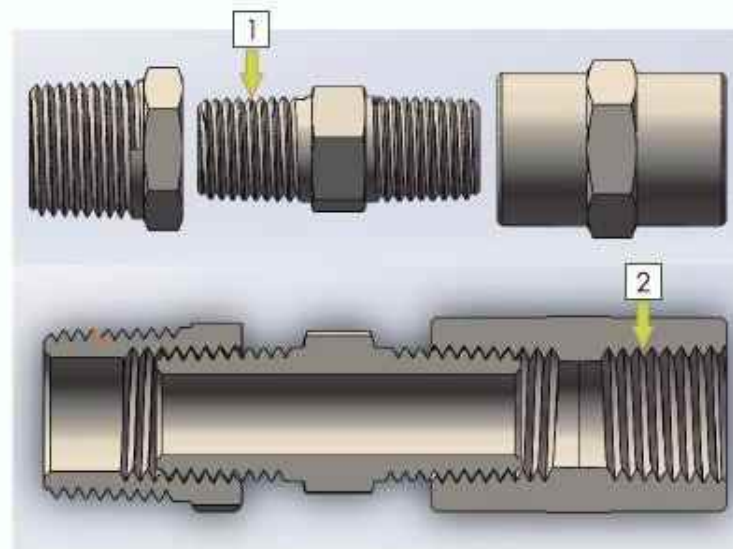
GAS conical ISO 7 (BSPT)
GAS Cylindrical ISO 228 (BSP)



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead, cadmium,
hexavalent chromium,PBB and PBDE)



Nickel-Plated PIPE FITTINGS



1 pipe thread

2 pipe thread

PIPE SIZE	M5	1/8	1/4	3/8	1/2	3/4	1"
THREAD SIZE	M5	1/8-28	1/4-19	3/8-19	1/2-14	3/4-14	1"-11

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Operating pressure up to 40bar

Vibration:

Fair resistance.

Temperature Range:

-104° F to +250° F (-40° C to +120° C)

Material:

Hpb59-1 Brass for Barstock fittings., CA3771 Brass for forged fittings

Used With:

Brass, bronze and iron pipe.

Advantages:

Dryseal pipe threads (BSPT/BSPP). Large range of sizes and configurations.

Actual Male Thread Profiles



Nickel-Plated PIPE FITTINGS

PART#	A	S.W	L	H	Weight	Price
2500-A	R1/8	12	19.5	7.5	9	
2500-B	R1/4	14	27	11	16	
2500-C	R3/8	17	28	11.5	21	
2500-D	R1/2	22	33.5	14	41	
2500-E	R3/4	27	40	16.5	80	
2500-F	R1	34	45.5	19	125	

R NIPPLE



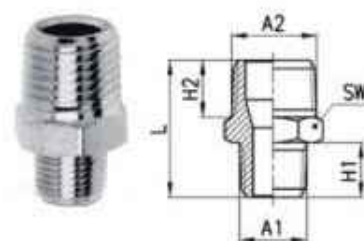
PART#	A	S.W	L	H	Weight	Price
2501-M5	M5	8	11.5	4	3	
2501-A	G1/8	13	16.5	6	9	
2501-B	G1/4	17	21	8	16	
2501-C	G3/8	19	23	9	21	
2501-D	G1/2	24	25.5	10	35	

G NIPPLE



PART#	A1×A2	S.W	L	H	Weight	Price
2510-AB	R1/8×R1/4	14	23.5	7.5	14	
2510-AC	R1/8×R3/8	17	24	7.5	18	
2510-BC	R1/4×R3/8	17	27.5	11	20	
2510-BD	R1/4×R1/2	22	30.5	11	34	
2510-CD	R3/8×R1/2	22	31	11.5	34	
2510-DE	R1/2×R3/4	27	37.5	14	67	

REDUCING NIPPLE



PART#	A1×A2	S.W	L	H	Weight	Price
2511-M5A	M5×G1/8	13	14.5	4	8	
2511-A8	G1/8×G1/4	17	19	6	15	
2511-AC	G1/8×G3/8	19	20	6	19	
2511-BC	G1/4×G3/8	19	22	8	20	
2511-BD	G1/4×G1/2	24	23.5	10	32	
2511-CD	G3/8×G1/2	24	24.5	10	34	

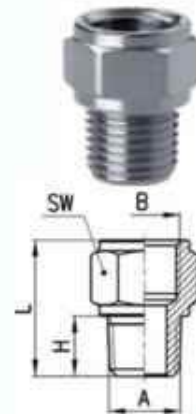
REDUCING NIPPLE



Nickel-Plated PIPE FITTINGS

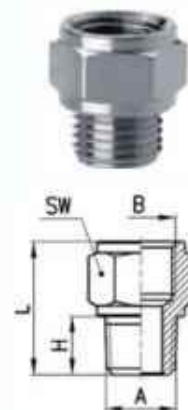
PART#	A1xA2	S.W	L	H	Weight	Price
2520-AA	R1/8xG1/8	13	17.5	7.5	9	
2520-AB	R1/8xG1/4	17	19	7.5	15	
2520-AC	R1/8xG3/8	20	20	7.5	19	
2520-BB	R1/4xG1/4	17	22.5	11	17	
2520-BC	R1/4xG3/8	20	23.5	11	21	
2520-BD	R1/4xG1/2	24	27.5	11	35	
2520-CC	R3/8xG1/2	20	24	11.5	23	
2520-CD	R3/8xG1/2	24	28	11.5	37	
2520-DD	R1/2xG1/2	24	30.5	14	41	

R EXTENDER ADAPTER



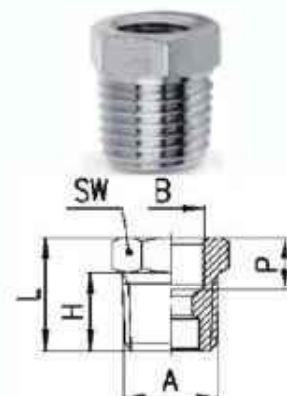
PART#	A1xA2	S.W	L	H	Weight	Price
2521-MSA	M5xG1/8	13	14	4	9	
2521-AA	G1/8xG1/8	13	16	6	10	
2521-AB	G1/8xG1/4	17	17.5	6	14	
2521-AC	G1/4xG3/8	20	18.5	6	30	
2521-BB	G1/4xG1/4	17	19.5	8	16	
2521-BC	G1/4xG3/8	20	20.5	8	20	
2521-BD	G1/4xG1/2	24	24.5	8	33	
2521-CC	G3/8xG3/8	20	21.5	9	22	
2521-CD	G3/8xG1/2	24	25.5	9	35	
2521-DD	G1/2xG1/2	24	26.5	10	40	

G EXTENDER ADAPTER



PART#	AxB	S.W	L	H	Weight	Price
2530-BA	R1/4xG1/8	14	16	11	9	
2530-CA	R3/8xG1/8	17	16.5	11.5	17	
2530-CB	R3/8xG1/4	17	19.5	11.5	13	
2530-DB	R1/2xG1/4	22	19.5	14	30	
2530-DC	R1/2xG3/8	22	19.5	15	24	
2530-EC	R3/4xG3/8	22	23	16.5	67	
2530-ED	R3/4xG1/2	27	23.5	16.5	48	
2530-HD	R3/8xG1/2	34	27	19	131	

BUSHING



Nickel-Plated PIPE FITTINGS

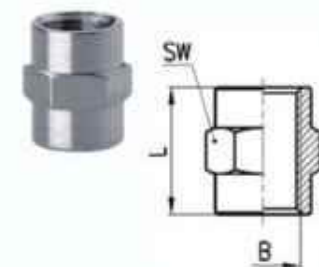
PART#	A×B	S.W	L	H	Weight	Price
2531-M5A	G1/8×M5	13	10.5	6	8	
2531-8A	G1/4×G1/8	17	13	8	11	
2531-CA	G3/8×G1/8	19	14	9	17	
2531-CB	G3/8×G1/4	19	14	9	12	
2531-DA	G1/2×G1/8	24	15.5	10	32	
2531-DB	G1/2×G1/4	24	15.5	10	29	
2531-DC	G1/2×G3/8	24	15.5	10	22	

BUSHING



PART#	B	S.W	L	Weight	Price
2543-M5	M5	8	11	5	
2543-A	G1/8	13	15	9	
2543-B	G1/4	17	22	19	
2543-C	G3/8	20	23	25	
2543-D	G1/2	24	28	29	

COUPLING



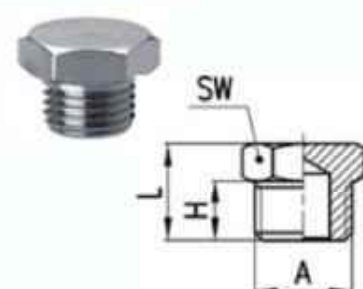
PART#	B1×B2	S.W	L	Weight	Price
2553-M5A	M5×G1/8	13	13.5	7	
2553-A8	G1/8×G1/4	17	17	18	
2553-AC	G1/8×G3/8	20	18	22	
2553-AD	G1/8×G1/2	24	21.5	28	
2553-BC	G1/4×G3/8	20	19.5	26	
2553-BD	G1/4×G1/2	24	23	32	
2553-CD	G3/8×G1/2	24	24	31	

REDUCING COUPLING



PART#	A	S.W	L	Weight	Price
2611-M5	M5	8	7.5	3	
2611-A	G1/8	13	10.5	8	
2611-B	G1/4	17	13	13	
2611-C	G3/8	19	14	18	
2611-D	G1/2	24	15.5	31	
2611-E	G3/4	30	17	55	
2611-H	G1"	38	19	76	

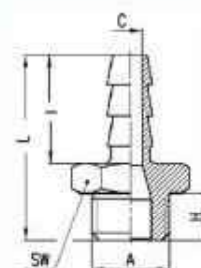
PULG



Nickel-Plated PIPE FITTINGS

PART#	A	S.W	L	C	H	I	Weight	Price
26012-M5	M5	8	16	1.2	6	8	8	
26014.5-M5	M5	8	23	2.5	8	15	8	
26017-1/8	G1/8	12	30	4	9	20	12	
26017-1/4	G1/4	17	33	4	9	20	17	
26018-1/8	G1/8	12	33	5	10	20	12	
26019-1/8	G1/8	12	30	5.5	10	20	12	
26019-1/4	G1/4	17	30	6	10	20	17	
26019-1/4	G1/4	17	33	6	8	20	17	
26019-3/8	G3/8	19	34	6	9	20	21	
260112-1/4	G1/4	17	33	8.5	8	20	20	
260112-3/8	G3/8	19	34	9	9	20	23	
260112-1/2	G1/2	24	35.5	9	10	20	34	
260117-3/8	G3/8	24	38	12	9	24	31	
260117-1/2	G1/2	19	39.5	13	10	24	41	

HOSE BABR



PART#	B	S.W	M	Weight	Price
2013-A	G1/8	11	18	27	
2013-B	G1/4	12	22	34	
2013-C	G3/8	15	24	59	
2013-D	G1/2	20	30	98	
2013-E	G3/4	24	32	135	

FEMALE ELBOW



PART#	A	S.W	M	Weight	Price
2010-A	R1/8	11	19	15	
2010-B	R1/4	12	23	25	
2010-C	R3/8	15	25	36	
2010-D	R1/2	20	31	65	
2010-E	R3/4	22	35	127	

MALE ELBOW



Nickel-Plated PIPE FITTINGS

PART#	A×B	S.W	M	E	Weight	Price
2020-A	R1/8×G1/8	11	19	16	17	
2020-B	R1/4×G1/4	12	23	20	27	
2020-C	R3/8×G3/8	15	25	22	33	
2020-D	R1/2×G1/2	20	31	28	63	
2020-E	R3/4×G3/4	24	36.5	30	126	

STREET ELBOW



PART#	A×B	S.W	M	E	Weight	Price
2060-A	R1/8×G1/8	11.6	19	15	22	
2060-B	R1/4×G1/4	16	23	20	38	
2060-C	R3/8×G3/8	20	25	20.5	49	
2060-D	R1/2×G1/2	23	31.5	24.5	89	

MALE BRANCH TEE



PART#	A×B	S.W	M	E	Weight	Price
2080-A	R1/8	11.6	19	19	14	
2080-B	R1/4	16	23	23	25	
2080-C	R3/8	20	25	25	39	
2080-D	R1/2	23	31.5	31.5	82	
2080-E	r3/4	24	36.5	36.5	135	

MALE TEE



PART#	A×B	S.W	M	E	Weight	Price
2070-A	R1/8×G1/8	11.6	19	15	22	
2070-B	R1/4×G1/4	16	23	20	37	
2070-C	R3/8×G3/8	20	25	20.5	49	
2070-D	R1/2×G1/2	23	31.5	24.5	89	

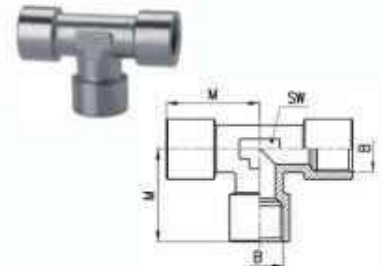
STREET TEE



Nickel-Plated PIPE FITTINGS

PART#	A	S.W	M	M	Weight	Price
2080-A	R1/8	11.6	19	19	23	
2080-B	R1/4	16	23	23	39	
2080-C	R3/8	20	25	25	54	
2080-D	R1/2	23	31.5	31.5	97	

FEMALE TEE



PART#	A×B	S.W	M	E	Weight	Price
2090-A	R1/8×G1/8	11.6	15.5	19	22	
2090-B	R1/4×G1/4	16	20.5	23	37	
2090-C	R3/8×G3/8	20	20.5	25	44	
2090-D	R1/2×G1/2	23	24.5	31.5	83	
2090-E	R3/4×G3/4	25	36.5	27	156	

STREET TEE



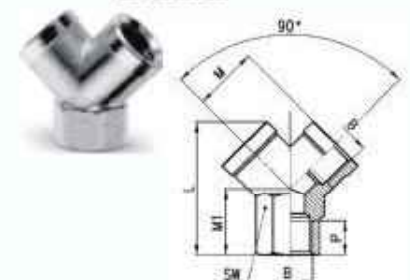
PART#	A×B	S.W	L	H	E	Weight	Price
2040-A	R1/8×G1/8	13	32	8	13.5	22	
2040-B	R1/4×G1/4	17	38	11	17.5	37	
2040-C	R3/8×G3/8	20	42.5	11.5	19.5	44	
2040-D	R1/2×G1/2	24	53	14	22.5	83	

Y TEE



PART#	B	S.W	L	P	M1	Weight	Price
2043-A	G1/8×G1/8	13	32	8	12	18	
2043-B	G1/4×G1/4	17	38	11	14	32	
2043-C	G3/8×G3/8	20	42.5	11.5	16	44	
2043-D	G1/2×G1/2	24	53	14	19	84	

Y TEE



Nickel-Plated PIPE FITTINGS

PART#	B	S.W	M	M	Weight	Price
2033-A	G1/8	12	19	19	27	
2033-B	G1/4	14	23	23	51	
2033-C	G3/8	16	25	25	70	

CROSS



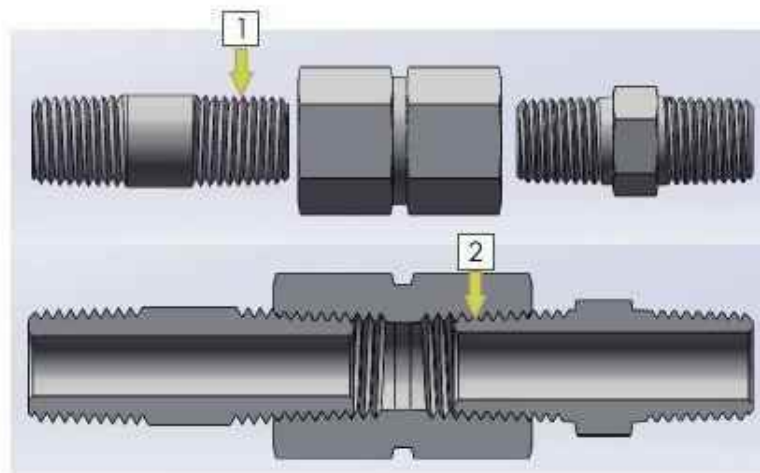


Stainless steel PIPE FITTINGS

Pipe Fittings

1/16" to 1 in. sizes
316 stainless steel and 304 stainless steel
NPT, ISO/BSP, and SAE threads





1 pipe thread

2 pipe thread

PIPE SIZE	1/16	1/8	1/4	3/8	1/2	3/4	1"
THREAD SIZE	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1"-1.1/2

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Max working pressure up to 10000 psi (316 Materials)

Vibration:

Fair resistance.

Temperature Range:

-250° F to + 800° F (-121° C to +426° C), O-ring fittings excluded. (316 Materials)

Material:

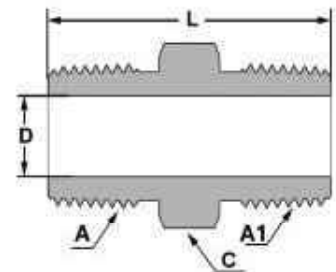
316 Stainless steel ,and Optional 304 Stainless steel



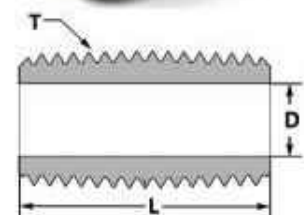
S.S PIPE FITTINGS

PART#	Thread size	C	D	DT	L	W.G	Price
S3325-11	1/16×1/16	5/16	.120	.120	1.00		
S3325-A1	1/8×1/16	7/16	.120	.120	1.00		
S3325-AA	1/8×1/8	7/16	.190	.190	1.00		
S3325-BA	1/4×1/8	9/16	.190	.190	1.22		
S3325-BB	1/4×1/4	9/16	.280	.280	1.40		
S3325-CA	3/8×1/8	11/16	.190	.190	1.25		
S3325-CB	3/8×1/4	11/16	.280	.280	1.43		
S3325-CC	3/8×3/8	11/16	.380	.380	1.43		
S3325-DA	1/2×1/8	7/8	.470	.190	1.47		
S3325-DB	1/2×1/4	7/8	.470	.280	1.62		
S3325-DC	1/2×3/8	7/8	.380	.380	1.62		
S3325-DD	1/2×1/2	7/8	.470	.470	1.84		
S3325-EB	3/4×1/4	1-1/16	.620	.280	1.65		
S3325-EC	3/4×3/8	1-1/16	.620	.380	1.78		
S3325-ED	3/4×1/2	1-1/16	.620	.470	1.84		
S3325-EE	3/4×3/4	1-1/16	.620	.620	1.84		
S3325-HB	1"×1/4	1-3/8	.880	.280	1.94		
S3325-HC	1"×3/8	1-3/8	.880	.380	1.97		
S3325-HD	1"×1/2	1-3/8	.880	.470	2.13		
S3325-HE	1"×3/4	1-3/8	.880	.620	2.13		
S3325-HH	1"×1"	1-3/8	.880	.880	2.32		

Nipple
Reducing Hex Nipple



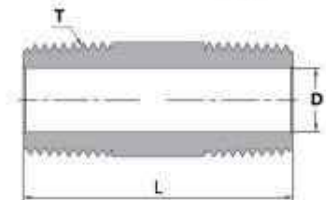
Nipple
Close Nipple



S.S PIPE FITTINGS

PART#	Thread size	D	L	W.G	Price
S3327-A	1/8	.190	1.50		
S3328-A	1/8	.190	2.00		
S3329-A	1/8	.190	2.50		
S3330-A	1/8	.190	3.00		
S3327-B	1/4	.280	1.50		
S3328-B	1/4	.280	2.00		
S3329-B	1/4	.280	2.50		
S3330-B	1/4	.280	3.00		
S3327-C	3/8	.380	1.50		
S3328-C	3/8	.380	2.00		
S3329-C	3/8	.380	2.50		
S3330-C	3/8	.380	3.00		
S3328-D	1/2	.470	2.00		
S3330-D	1/2	.470	3.00		
S3331-D	1/2	.470	4.00		
S3328-E	3/4	.620	2.00		
S3330-E	3/4	.620	3.00		
S3331-E	3/4	.620	4.00		
S3330-H	1"	.880	3.00		
S3331-H	1"	.880	4.00		

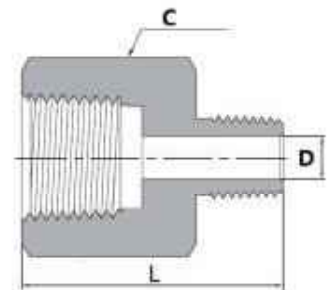
Long Nipple



S.S PIPE FITTINGS

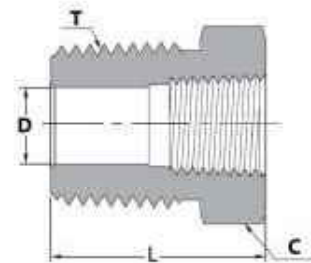
PART#	Thread size	C	D	L	W.G	Price
S3200-A1	F1/8×M1/16	9/16	.120	1.09		
S3200-AA	F1/8×M1/8	9/16	.190	1.10		
S3200-B1	F1/4×M1/16	3/4	.120	1.20		
S3200-BA	F1/4×M1/8	3/4	.190	1.26		
S3200-BB	F1/4×M1/4	3/4	.280	1.25		
S3200-C1	F3/8×M1/16	7/8	.120	1.25		
S3200-CA	F3/8×M1/8	7/8	.190	1.33		
S3200-CB	F3/8×M1/4	7/8	.280	1.50		
S3200-CC	F3/8×M3/8	7/8	.380	1.51		
S3200-DA	F1/2×M1/8	1-1/16	.190	1.58		
S3200-DB	F1/2×M1/4	1-1/16	.280	1.76		
S3200-DC	F1/2×M3/8	1-1/16	.380	1.75		
S3200-DD	F1/2×M1/2	1-1/16	.470	1.94		
S3200-EA	F3/4×M1/8	1-1/4	.190	1.56		
S3200-EB	F3/4×M1/4	1-1/4	.280	1.85		
S3200-EC	F3/4×M3/8	1-1/4	.380	1.82		
S3200-ED	F3/4×M1/2	1-1/4	.470	2.02		
S3200-EE	F3/4×M3/4	1-1/4	.620	2.02		
S3200-HB	F1"×M1/4	1-5/8	.280	1.96		
S3200-HC	F1"×M3/8	1-5/8	.380	2.00		
S3200-HD	F1"×M1/2	1-5/8	.470	2.16		
S3200-HE	F1"×M3/4	1-5/8	.620	2.17		
S3300-HH	F1"×M1"	1-5/8	.880	2.28		

Adapter
(Ref.SAENO.130139)



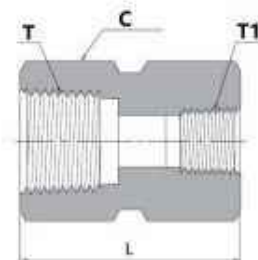
PART#	Thread siz	C	D	L	W.G	Price
S3220-A1	M1/8×F1/16	7/16	.19	1.03		
S3220-B1	M1/4×F1/16	9/16	.19	.86		
S3220-BA	M1/4×F1/8	9/16	.28	1.06		
S3220-C1	M3/8×F1/16	11/16	.19	.86		
S3220-CA	M3/8×F1/8	11/16	.34	.86		
S3220-CB	M3/8×F1/4	3/4	.38	1.19		
S3220-DA	M1/2×F1/8	7/8	.34	1.08		
S3220-DB	M1/2×F1/4	7/8	.45	1.08		
S3220-DC	M1/2×F3/8	7/8	.47	1.41		
S3220-EB	M3/4×F1/4	1-1/8	.45	1.08		
S3220-EC	M3/4×F3/8	1-1/8	.59	1.08		
S3220-ED	M3/4×F1/2	1-1/8	.62	1.63		
S3220-HB	M1"×F1/4	1-3/8	.45	1.37		
S3220-HC	M1"×F3/8	1-3/8	.59	1.37		
S3220-HD	M1"×F1/2	1-3/8	.73	1.37		
S3220-HE	M1"×F3/4	1-3/8	.88	1.85		

Bushing



PART#	TxT1	C	L	W.G	Price
S3300-L11	1/16×1/16	7/16	.78		
S3300-AA	1/8×1/8	9/16	.81		
S3300-BA	1/4×1/8	3/4	1.22		
S3300-BB	1/4×1/4	3/4	1.19		
S3300-CB	3/8×1/4	7/8	1.38		
S3300-CC	3/8×3/8	7/8	1.31		
S3300-DB	1/2×1/4	1-1/16	1.75		
S3300-DC	1/2×3/8	1-1/16	1.78		
S3300-DD	1/2×1/2	1-1/16	1.56		
S3300-ED	3/4×1/2	1-1/4	2.06		
S3300-EE	3/4×3/4	1-1/4	1.62		
S3300-HD	1"×1/2	1-1/2	2.19		
S3300-HE	1"×3/4	1-1/2	2.25		
S3300-HH	1"×1"	1-1/2	2.00		

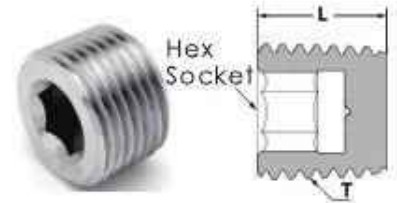
Coupling
(Ref.SAE.NO.130138)



S.S PIPE FITTINGS

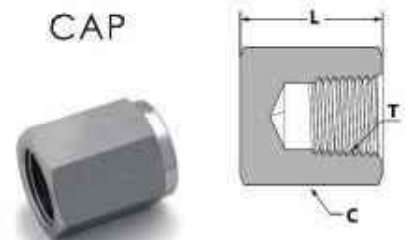
PART#	Thread size	Socket Hex	L	W.G	Price
S3153-A	1/8	3/16	.30		
S3153-B	1/4	1/4	.45		
S3153-C	3/8	15/16	.47		
S3153-D	1/2	3/8	.54		
S3153-E	3/4	9/16	.55		
S3153-H	1"	5/8	.69		

Hex Socket Plug



PART#	Thread size	C	L	W.G	Price
S3129-A	1/8	5/8	.53		
S3129-B	1/4	3/4	.91		
S3129-C	3/8	7/8	1.03		
S3129-D	1/2	1-1/8	1.34		
S3129-E	3/4	1-3/8	1.44		
S3129-H	1"	1-5/8	1.62		

CAP



PART#	Thread size	C	L	W.G	Price
S3152-I	1/16	5/8	.53		
S3152-A	1/8	7/16	.56		
S3152-B	1/4	9/16	.74		
S3152-C	3/8	11/16	.78		
S3152-D	1/2	7/8	.97		
S3152-E	3/4	1-1/16	1.10		
S3152-H	1"	1-5/16	1.24		

Hex Head Plug



S.S PIPE FITTINGS

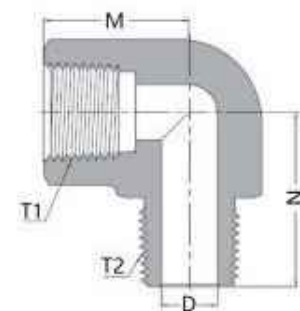
PART#	Thread size	D	M	W.G	Price
S3550-1	1/16	.120	.67		
S3550-A	1/8	.190	.88		
S3550-B	1/4	.280	1.05		
S3550-C	3/8	.380	1.17		
S3550-D	1/2	.470	1.45		
S3550-E	3/4	.620	1.59		
S3550-H	1"	.880	1.97		

Forged 90 Male Elbow



PART#	Thread size	D	M	N	W.G	Price
S3420-1-1	F1/16×F1/16	.120	.86	.88		
S3420-1A	F1/16×F1/8	.120	.86	.88		
S3420-1B	F1/16×M1/4	.120	.88	1.09		
S3420-AA	F1/8×M1/8	.120	1.04	.87		
S3420-AB	F1/8×M1/4	.280	.88	1.09		
S3420-AC	F1/8×M3/8	.280	.88	1.17		
S3420-BA	F1/4×M1/8	.190	1.17	1.00		
S3420-BB	F1/4×M1/4	.280	1.17	1.17		
S3420-BC	F1/4×M3/8	.340	1.17	1.17		
S3420-BD	F1/4×M1/2	.340	1.00	1.45		
S3420-CB	F3/8×M1/4	.280	1.42	1.26		
S3420-CC	F3/8×M3/8	.380	1.42	1.26		
S3420-CD	F3/8×M1/2	.470	1.42	1.45		
S3420-CE	F3/8×M3/4	.470	1.23	1.59		
S3420-DB	F1/2×M1/4	.280	1.56	1.38		
S3420-DC	F1/2×M3/8	.380	1.56	1.38		
S3420-DD	F1/2×M1/2	.470	1.56	1.56		
S3420-DE	F1/2×M3/4	.620	1.23	1.59		
S3420-EE	F3/4×M3/4	.620	1.92	1.97		
S3420-EH	F3/4×M1"	.880	1.63	1.94		

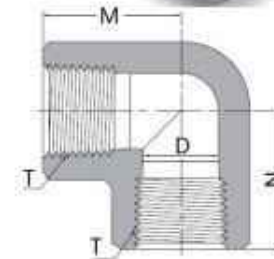
90° Street Elbow



S.S PIPE FITTINGS

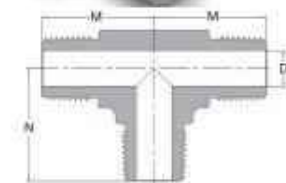
PART#	Thread size	D	M	N	W.G	Price
S3520-11	1/16×1/16	.190	.86	.86		
S3520-A1	1/8×1/16	.190	1.04	1.04		
S3520-AA	1/8×1/8	.280	1.04	1.04		
S3520-BA	1/4×1/8	.280	1.17	1.17		
S3520-BB	1/4×1/4	.410	1.17	1.17		
S3520-CC	3/8×3/8	.500	1.42	1.42		
S3520-DD	1/2×1/2	.670	1.56	1.56		
S3520-EE	3/4×3/4	.880	1.92	1.92		
S3520-HH	1"×1"	1.11	1.91	1.91		

90° Street Elbow



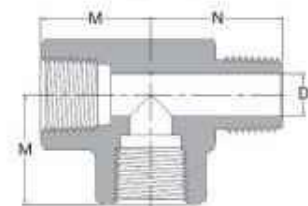
PART#	Thread size	D	M	N	W.G	Price
S3800-1	1/16	.120	.67	.67		
S3800-A	1/8	.190	.88	.88		
S3800-B	1/4	.280	1.05	1.05		
S3800-C	3/8	.380	1.17	1.17		
S3800-D	1/2	.470	1.45	1.45		
S3800-E	3/4	.620	1.67	1.67		

Forged all Male Tee



PART#	Thread size	M	N	D	W.G	Price
S3750-1	1/16	.86	.72	.12		
S3750-A	1/8	1.04	.87	.19		
S3750-B	1/4	1.17	1.17	.28		
S3750-C	3/8	1.42	1.26	.38		
S3750-D	1/2	1.56	1.56	.47		
S3750-E	3/4	1.92	1.67	.62		

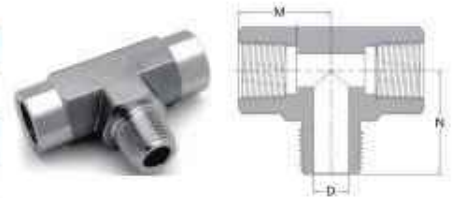
Forged Male Run Tee



S.S PIPE FITTINGS

PART#	Thread size	M	N	D	W.G	Price
S3600-I	F1/16×M1/16	.86	.72	.12		
S3600-A	F1/8×M1/8	1.04	.87	.19		
S3600-B	F1/4×M1/4	1.17	1.17	.28		
S3600-C	F3/8×M3/8	1.42	1.26	.38		
S3600-D	F1/2×M1/2	1.56	1.56	.47		
S3600-E	F3/4×M3/4	1.92	1.67	.62		

Male Branch Tee



PART#	Thread size	L	D	W.G	Price
S3700-I	1/16	.86	.19		
S3700-A	1/8	1.04	.34		
S3700-B	1/4	1.17	.45		
S3700-C	3/8	1.42	.59		
S3700-D	1/2	1.56	.73		
S3700-E	3/4	1.92	.94		

Tee



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PART#	Thread size	D	M	W.G	Price
S3950-I	1/16	.190	.86		
S3950-A	1/8	.340	1.04		
S3950-B	1/4	.450	1.17		
S3950-C	3/8	.590	1.42		
S3950-D	1/2	.720	1.56		
S3950-E	3/4	.940	1.92		

Crosses



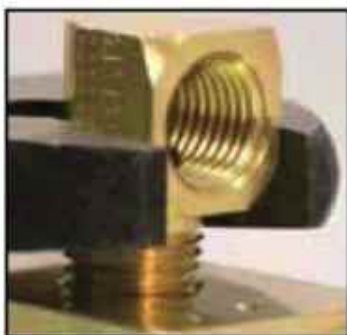
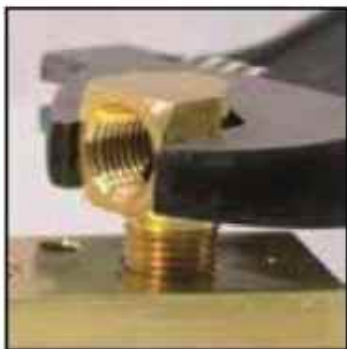
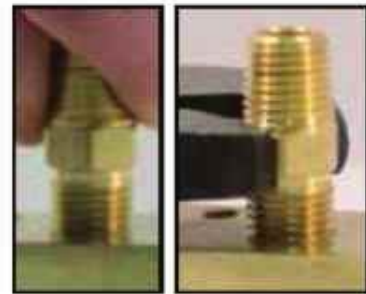


Assembly Guides

Pipe Fittings

Straight Fittings

1. Tighten external thread into internal thread
2. Tighten an additional 2 turns with a wrench up to 1/2" male pipe thread.
3. Above 1/2" 1 1/2 to 2 1/2 turns



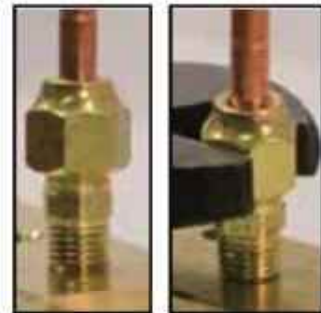
Elbow or Tee Fittings

1. Tighten external thread into internal thread
2. Tighten an additional 1 to 1 1/2 turns with a wrench
3. Tighten fitting, clockwise to align with tubing. (Never counter clockwise)

Note: To minimize the possibility of a leaking threaded joint after assembling Male to female pipe threads, neither end should be backed out (loosened) Once the assembly has been made.

45° Flare Fittings

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare.
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench an additional 1/4 to 1/2 turn past finger-tight for a metal-to-metal seal.



Hose Barbs

1. Cut hose cleanly and squarely to length.
2. Slide clamp on hose.
3. Lubricate hose. Push hose on fitting until bottomed against stop ring or hex.
4. Position hose clamp as shown and secure with a screwdriver or wrench. Maintain "A" dimension for proper clamp positioning.



Mini-Barb

Cut tube squarely and simply push tube over the two barbs

Compression

1. Slide nut then sleeve onto tubing. The thread end of the nut must face out.
2. Insert tube and bottom on the fitting shoulder
3. Assemble nut to body and tighten "hand tight" . Then wrench tighten the number of turns indicated in the table.



Transportation Compression D.O.T Nylon Tube Fittings

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tubing until it bottoms on seat.
4. Tighten nut with wrench until one thread remains visible on the fitting body; (this will allow for a number of remakes) or, the nut should be screwed down finger tight, then wrenchtightened as indicated in the following table.

Air Brake – AB Fittings

1. Cut tubing squarely and remove burrs
2. Slide nut and sleeve onto tubing.
3. Insert tubing into fitting until bottomed on seat. The nut should be screwed down finger tight, then wrench tightened as indicated in the chart



Air Brake Hose Ends

1. Slide nut onto hose
2. Slide sleeve onto hose with tapered edge toward fitting body
3. Bottom hose into fitting
4. Tighten nut until it contacts body hex

*Note: When reassembling fitting, body and nut should be inspected. Only reuse if parts are in proper condition. Sleeves should never be Reused.

PUSH-IN

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tubing until it bottoms
4. Pull on tubing to verify it is fully inserted
5. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



Inverted Flare

1. Cut tubing squarely and clean to remove burrs
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare
4. On thin wall copper, welded or brazed tubing, use double flare to prevent pinchoff or cracked flares
5. Clamp tube flare between nut and nose of fitting body by screwing nut on finger tight. Tighten nut with a wrench an additional 1/4 to 1/2 turn past finger tight for a metal-to-metal seal.